

NASA Contractor Report 4149

A Bibliography of Dunes: Earth, Mars, and Venus

N. Lancaster

COOPERATIVE AGREEMENT NCC2-346
JUNE 1988

{NASA-CR-4149} A BIBLIOGRAPHY OF DUNES:
EARTH, MARS, AND VENUS {Arizona State
Univ.} 118 p CSCL 03B

N88-27134

Unclas

H1/91 0141392

NASA

NASA Contractor Report 4149

A Bibliography of Dunes: Earth, Mars, and Venus

N. Lancaster
Arizona State University
Tempe, Arizona

Prepared for
NASA Office of Space Science and Applications
under Cooperative Agreement NCC2-346



National Aeronautics
and Space Administration

Scientific and Technical
Information Division

1988

TABLE OF CONTENTS

Preface	v
Acknowledgements	v
Dunes as a Planetary Landform	1
Facets of Dune Study	3
Characteristics of Dunes	5
Subject Index	11
Geographical Index	23
Bibliography	31

PRECEDING PAGE BLANK NOT FILMED

ENCL IV INTENTIONALLY BLANK

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED

PREFACE

Dunes are important depositional landforms and sedimentary environments on Earth and Mars, and may be important on Venus. The similarity of dune forms on Earth and Mars, together with the dynamic similarity of aeolian processes on the terrestrial planets indicates that it is appropriate to interpret dune forms and processes on Mars and Venus by using analog studies.

However, the literature on dune studies is large, and scattered in a wide variety of sources. The aim of this bibliography is to assist investigators by providing a literature resource on techniques which have proved successful in elucidating dune characteristics and processes on Earth, Mars and Venus. This bibliography documents the many investigations of dunes undertaken within the last century or so, and continues the bibliography of Warren (1969). It concentrates on studies of inland dunes in both hot and cold desert regions on Earth and includes investigations of coastal dunes only if they discuss matters of general significance for dune sediments, processes or morphology.

Likewise, work on aeolian sandstones has been excluded, except where it includes a significant discussion of modern aeolian environments. Material on planetary aeolian processes and terrestrial analogs for martian and venusian aeolian processes has been included where it relates to dunes. The bibliography includes major references to studies of aeolian sediment transport, but does not reference all studies of an applied nature, such those on desertification and dune stabilization. For a bibliography of desertification and allied topics, the reader is referred to Busche et al. (1984).

Since 1970, interest in aeolian sediments and dunes has increased considerably. This is the result of the availability of Landsat images of most desert areas; the Viking Missions to Mars; the discovery of oil and gas in Mesozoic aeolian sandstones in the western USA; and the increased development of many desert regions, especially in the Middle East and China. The size of this bibliography, compared to that of Warren (1969) reflects this increased interest.

ACKNOWLEDGEMENTS

I wish to thank Jenny Hallward and Judith Lancaster for the many hours of work they put in searching for and checking references, which made compiling this bibliography possible.

Critical reviews by Gary Kocurek, Haim Tsoar and Andrew Warren

improved the format and ease of use of this work very considerably.

Facilities and support from R. Greeley through NASA Grant NCC 2-346 made it possible to publish this work in its present form.

PRECEDING PAGE BLANK ~~NOT FILMED~~

DUNES AS A PLANETARY LANDFORM

Wind action is a major geological process modifying the surface of the terrestrial planets, especially the Earth and Mars (Greeley, 1981). Conditions on Venus, and possibly Titan, also appear to be capable of supporting aeolian processes.

Dunes on Earth

Dunes, mostly of quartz sand, but also including those composed of gypsum and volcanic sand and clay pellets, are probably the most important aeolian depositional landform, and commonly occupy between 10 and 35% of the area of most desert regions on Earth (Table 1). Dunes are most widespread in the old world deserts of Africa, Australia, the Middle East and central Asia.

Table 1

Percent of area covered by dunes in major arid regions.

Arabia	26.0
Australia	31.0
Central Asia	4.5
China	5.3
Sahara	25.0
Southern Africa	16.0
Southwestern USA	0.6

Sources: Clements et al., 1963; Mabbutt, 1971; Mainguet and Canon, 1976.

Most dunes are aggregated into more or less continuous sand bodies known as sand seas (McKee, 1979a) or ergs (Wilson, 1973). Often smaller areas of dunes, such as those in the North American deserts, are termed dunefields.

On Earth, the majority of important sand seas and dunefields are located in low-latitude hot deserts (Fig. 1).

Important dune areas also occur in the cold arid and semi arid regions of Canada, the western USA and Alaska, and central Asia. Many of these dunes possess distinctive sedimentary features (Ahlbrandt and Andrews, 1978). On the margins of many currently active or unvegetated sand seas and dunefields there are extensive areas of dunes which are partly or completely inactive and vegetated. Many of these dunes were active at intervals during the Pleistocene, most recently in the period coeval with the last Glacial Maximum (Sarnthein, 1978). They provide valuable information on the extent and distribution of desert climates at these times. Also active in Glacial periods were the many periglacial dunefields, the most extensive of which were located in the northern Great Plains of the USA, and in Poland.

Dunes on Mars

Aeolian action appears to dominate the current surface geologic processes on Mars. The importance of global and regional scale dust storms and the widespread distribution of eolian deposits and landforms has been described by many investigators (e.g. Breed et al., 1979; Cutts and Smith, 1973; Christensen, 1983; Greeley, 1981; Greeley et al., 1985; Thomas, 1981, 1982; Tsoar et al., 1979; Ward et al., 1985). Extensive areas of dunes occur in the high to mid latitudes both hemispheres (Breed et al. 1979; Thomas 1982) and cover some $1.2 \times 10^6 \text{ km}^2$ or 0.84 % of the planet's surface. Those in the northern hemisphere lie mostly in the North Polar sand sea (Tsoar et al., 1979) in

which 90% of Martian dunes are situated. This is the largest sand sea known, and covers an area of $7 - 8 \times 10^5 \text{ km}^2$ (Tsoar et al., 1979).

The dunes of the southern hemisphere are situated mainly within craters, between latitudes -40 and -60° and longitudes $160 - 225^\circ$. There are also a number of small dunefields in equatorial regions.

Dunefields in both hemispheres appear to be dominated by crescentic and barchan dunes (Breed et al., 1979; Tsoar et al., 1979), indicating a basically unidirectional wind regime. Reversing crestlines were, however, recognised by Tsoar et al. (1979). Cutts and Smith (1973) identified reversing and star-like dunes in some southern hemisphere intra crater dunefields, suggesting that seasonal wind direction changes probably occur.

The relationship between dune patterns and formative winds remains uncertain and there is poor agreement between the alignment patterns of the dunes and published models of wind patterns (Ward and Doyle, 1983). This may suggest that, in part, the dunefields are paleoforms, which may have originated in periods when Martian atmospheric density was higher (McCauley et al., 1979). Breed et al. (1979) present evidence to show that some North Polar Sand Sea dunes are eroding today, or being modified under a long-term change in wind regimes. In contrast, Tsoar et al. (1979) and Ward and Doyle (1983) present evidence to indicate that the dunes of the North Polar Sand Sea are currently active. Thomas (1981) suggests southern hemisphere dunefields are aligned with current winds.

The dunefields of Mars, especially the North Polar Sand Sea, represent major accumulations of sediment. The source of this sediment and the conditions under which it has accumulated as dunefields are still a matter of controversy. A major problem is a source of suitable sand-sized material for dune building. Potential sources include the weathering products of basaltic lava flows (Tsoar et al., 1979); the Polar layered deposits (Breed et al., 1979; Thomas, 1982) or the fretted terrain of high latitude southern hemisphere regions (McCauley et al., 1981).

It is clear that, despite the work of many investigators, important questions remain to be answered about the nature of dune patterns on Mars and their relationship to past and present dune-forming winds; as well as the role of dunes in global and regional scale sediment transport patterns on the planet.

Dunes on Venus.

The potential for aeolian processes on Venus has been shown by theoretical (Iversen et al., 1976) and wind tunnel studies (Greeley, Iversen et al., 1984). Venera images (Basilevsky et al., 1984) also show structures that could be aeolian bedforms.

Greeley, Marshall & Leach (1984) have produced small aeolian bedforms in a simulated Venusian environment. These bedforms, termed microdunes, are believed to be true dunes analogous to those on Earth and form at low wind velocities. Greeley and his co-workers propose that the microdunes are capable of very rapid rates of movement and may grow into large features



Fig.1. Distribution of major low latitude sand seas.

FACETS OF DUNE STUDY

Studies of dunes have concentrated on three main areas.

1. Description of dune forms and patterns

Initially, description of dune forms was made in the course of ground investigations, often during the exploration of desert regions. Names for the forms (seif, silk, barchan, zibar etc.) were derived from the rich terminology of desert landforms employed by the local population (e.g. Bagnold, 1951). Later investigations (e.g. Monod, 1958,1961; Smith, 1963; Mainguet and Callot, 1974) utilised aerial photography to great advantage in their descriptions. As a result, data on dune patterns and trends became more widely available (Wilson, 1972b,1973). In the 1970's, the availability of satellite images of desert regions made it possible to study the dune patterns of whole sand seas with relative ease and led to the realisation

that basic dune forms in different sand seas are remarkably similar, contrary to the views expressed earlier (e.g. Warren, 1969). The results of this phase of dune study are synthesised by McKee (1979a).

Dunes were unrecognised on other planets until the Mariner 9 mission to Mars (Cutts and Smith, 1973). The higher resolution of the Viking orbiter images showed the extent and nature of dunes on Mars, which are apparently very similar in form to those on Earth (Breed, 1977; Tsoar et al., 1979; Breed et al., 1979). This suggests that similar processes are involved in their formation and dynamics and that use of terrestrial analogs is appropriate in the study of martian dunes.

The vast amount of data from remote sensing of desert dunes has prompted studies of the morphometric characteristics of dune patterns and shown their very considerable regularity over wide areas (e.g. Breed

and Grow, 1979). The realisation that dunes of similar characteristics occur in widely separated sand seas has focused attention upon the factors which control their morphology and morphometry (e.g. Fryberger, 1979; Breed and Grow, 1979; Lancaster, 1983a; Wasson and Hyde, 1983a,b). Although the amount of environmental information, especially data on wind speed and direction, is still limited in most desert regions, it is possible to demonstrate the important role of wind regimes, especially their directional variability, in determining dune morphology. Despite the efforts of Wilson (1972b), little progress has been made on understanding the factors which ultimately control dune size and spacing.

2. Studies of dune sediments

Studies of dune sediments have concentrated upon investigations of grain shape, colour and mineralogy; grain size and sorting characteristics; and sedimentary structures in dunes.

Many investigations of dune sediments have been linked to attempts to positively identify sands in the rock record as aeolian and so to characterise their depositional environments. This has frequently involved comparisons of aeolian sands with those deposited in marine, coastal, fluvial or glacial environments (e.g. Muiola et al., 1974; Visser, 1969). However, recent work has shown that the use of textural parameters (grain size, sorting) is unreliable as an indicator of depositional environments (Ahlbrandt, 1979). Consequently, attention has turned to studies of the variability of grain size and sorting parameters of dune sands over individual dunes (e.g.

Barndorff-Nielsen et al., 1982; Chaudri and Khan, 1981; Lancaster, 1981c; Vincent, 1984) and within sand seas and dunefields (Ahlbrandt, 1975; Lancaster and Ollier, 1983; Wasson, 1983b).

Studies of sedimentary structures in dunes were pioneered by McKee (1966, 1982) and have provided much valuable information on the ways in which dunes accumulate. However, the logistics of carrying out such studies in most desert regions have prevented their full potential from being realised. Recent work has been concerned with the identification and description of small scale sedimentary structures associated with primary aeolian depositional processes (Hunter, 1977a; Kocurek and Dott, 1981) as well as experimental and theoretical investigations of aeolian deposition (e.g. Fryberger and Schenk, 1981; Rubin and Hunter, 1982).

3. Studies of dune processes

Investigations of dune processes have concentrated on two main topics:

(a) The physics of grain movement by the wind; and (b) The movement and dynamics of dunes.

Although not directly related to investigation of desert dunes, studies of the physics of grain movement by the wind provide the basis of our knowledge of aeolian processes and sand transport rates. Many investigations are still strongly influenced by the seminal work of Bagnold (1941). In recent years debate on the nature of aeolian processes on other terrestrial planets, notably Mars and Venus, has led to a re-examination of the physics of grain movement (e.g. Iverson et al., 1976; White, 1979) and the nature of aeolian saltation (Greeley

et al., 1983). Consideration has been given to the effects of grain density and mineralogy and grain shape on sand transport rates (Gerety and Slingerland, 1983; Willetts, 1983). Problems in using Bagnold type sand transport equations in the absence of reliable meteorological observations in many desert regions have suggested new theoretical (Lettau and Lettau, 1978) and empirical (Hsu, 1973) equations.

Studies of the movement of dunes, especially those of barchan type, have had a long history. A consistent inverse relationship between the rate of movement of barchans and their height has been established from a variety of areas (e.g. Finkel, 1959; Long and Sharp, 1966; Hastenrath, 1967; Tsoar, 1984). Little is known, however, about the nature and rate of movement of other dune types, such as linear and star dunes.

In recent years, there have been important advances in the knowledge of dune processes through careful study of winds and sand movements on individual dunes (e.g. Howard et al., 1978; Tsoar, 1978, 1983; Warren and Knott, 1983; Lancaster, 1985; Livingstone, 1986). These studies have given rise to a new understanding of the factors which influence the dynamics and morphology of barchan and linear dunes, and demonstrate the

importance of secondary airflow in controlling dune morphology.

Investigations of sand sea growth and dynamics are potentially very difficult to carry out, although Wilson (1971b) Mainguet (1978) and Fryberger and Ahlbrandt (1979) have provided useful models which may be tested by detailed studies of individual sand seas (e.g. Mainguet and Chemin, 1983a; Lancaster, 1983a).

As observed by Warren (1969), investigations of dunes are geographically clustered. In part there is also a temporal pattern. For example, field investigations of the Saharan sand seas, mostly by the French, peaked in the 1950's and 1960's. Since then there have been few field studies, but many investigations using remote sensing imagery.

In recent years the best studied sand seas and dunefields have been in Australia (especially the Simpson-Strezlecki); the Namib Desert in southern Africa and the deserts of the USA. Many Middle Eastern and Asian sand seas are almost unknown to modern investigators, except through remote sensing. Extensive investigations have been also made of Pleistocene periglacial and modern cold climate dunefields in Poland, the USA and Canada.

CHARACTERISTICS OF DUNES

Dune morphology

Desert dunes occur in a variety of morphologic and morphodynamic states. This has prompted the development of a number of classifications of dune type, based upon their morphology and relationships to

formative winds. Many of these are specific to individual sand seas or dunefields (e.g. Monod, 1958) whilst others (Aufrere, 1931; Hack, 1941) are of more general application. Multitudes of local names have been applied to dunes of different types,

these are summarised and equivalents supplied by Breed and Grow (1979). The advent of remote sensing imagery has prompted further classifications of dunes based upon their external morphology (Mainguet, 1976a, 1983a; McKee and Breed, 1974a,c).

The classification of McKee (1979a) is based upon the external morphology of dunes, the position and number of slip faces, and aspects of internal structures where information is available. In this classification five basic dune types are recognised (Table 2 and Fig. 2). Comparison of dune types and wind regimes (Fryberger, 1979; Wasson and Hyde, 1983a) shows that each type occurs in a distinct environment. The proportion of dunes of different types in major sand seas on Earth is given in Table 3.

Table 2
Basic dune types (after McKee, 1979)

Crescentic	
Barchan	
Barchanoid ridge	
Transverse ridge	
Linear	
also referred to as sand ridges, seif dunes, longitudinal dunes.	
Star	
also referred to as pyramidal dunes, rhourds, ghourds, or oghurds.	
Parabolic	
Dome	

Crescentic Dunes

Dunes of a crescentic form, with a single major slip face on their lee side, are known as barchans when present as individual crescents; barchanoid ridges when coalesced to form a single ridge with a sinuous lee side slip face; and transverse dunes when the slip face is relatively straight. Such dunes mostly form in wind regimes where sand

moving winds blow from one major directional sector. They occupy approximately 39% of the area of sand seas worldwide and are dominant in many central Asian and north American sand seas and dunefields. Most martian dunes are apparently of this type (Tsoar et al., 1979).

Linear Dunes

Dunes of linear form, often referred to as longitudinal or seif dunes, are the most widespread of all dune types (Lancaster, 1982b) and occupy an average of 50% of the area of sand seas. Especially common in sand seas in Australia, the Kalahari (80 - 90% of dune area) and Saudi Arabia (65%), linear dunes are characterised by their straightness, parallelism and great length. Slip faces may occur on each side of the crest line and change orientation seasonally. Considerable controversy has surrounded the mode of origin of linear dunes and their relationship to dune forming winds (Lancaster, 1982b), but the weight of evidence suggests that they formed in wind regimes with two main directions of sand moving winds from within a 180° arc.

Star and Reversing Dunes

Dunes with a pyramidal form, radiating arms and multiple slip faces are referred to as star dunes and occupy an average of 8% of the area of most sand seas. They are particularly common in sand seas in the northern Sahara (39% of area) but are absent in the Kalahari and Australia. Star dunes often form in multidirectional or complex wind regimes and are characterised by their large size and tendency for vertical growth.

Intermediate between linear dunes and star dunes are reversing dunes, which form where winds from two main directions are opposed in direction and sand moving potential. Reversing

dunes are described from the Gran Desierto, Mexico; Great Sand Dunes, Colorado (Andrews, 1981); the Namib Sand Sea and the Victoria Valley, Antarctica (Rutford and Calkin, 1974).

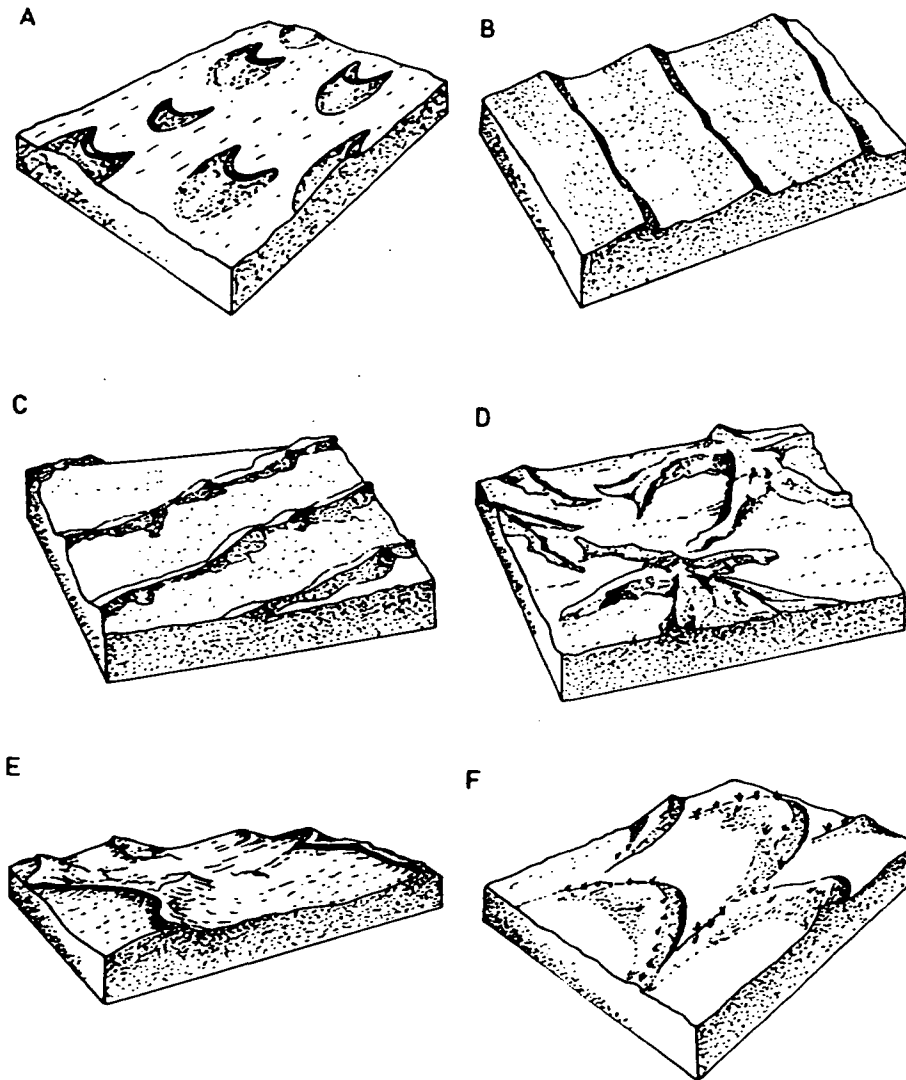


Fig. 2. Major dune types (after McKee 1979a).

A: Barchan; B: Transverse; C: linear; D: Star; E: Reversing; F: Parabolic

Parabolic Dunes

Dunes of a parabolic form occur where there is partial stabilisation of sand surfaces by vegetation. They are characteristic of many cold climate dunefields (Ahlbrandt and Andrews, 1978) and dunefields in semi arid regions (Verstappen, 1968). Allied to parabolic dunes are blow outs or deflation depressions.

Other aeolian depositional landforms

Sand surfaces known as sand sheets or streaks cover wide areas of many sand seas. Their origins are not clear (Fryberger, 1979; Kocurek and Nielson, 1986) but their formation appears to be influenced by the presence of vegetation, a high water table or coarse sand. Many sand sheets and interdune areas between linear and star dunes are formed into undulating bedforms which lack slip faces, known as zibar (e.g. Holm, 1960; Warren, 1972; Nielson and Kocurek, 1986).

Table 3

Percent of dunes of different types in major sand seas on Earth (after Fryberger and Goudie, 1981).

	Crescentic	Linear	Star	Parabolic	Dome
Sahara					
north	52.03	35.64	12.36	-	-
northeast	23.92	28.00	39.37	-	1.32
west	35.07	64.93	-	-	-
south	54.08	45.90	-	-	-
Namib	21.63	59.66	18.18	-	-
Kalahari	-	98.97	-	0.68	-
Saudi Arabia	19.47	65.03	6.97	-	-
Asia					
Thar	37.52	20.45	-	42.02	-
Takla Makan	55.55	33.29	-	-	11.14
Ala Shan	83.93	4.47	8.92	-	2.67
Average	39.07	49.53	8.11	4.75	1.46

Compound or Complex Dune types

The basic dune forms outlined above may be combined to form compound or complex varieties. Compound dunes are characterised by the juxtaposition or superimposition of dunes of the same basic type. Particularly common are compound crescentic or transverse ridges with

superimposed crescentic dunes. Such dunes are described from the Algodones dunes of California (Norris and Norris, 1961; Smith, 1978b) and the Namib coast (Lancaster, 1983a). Compound linear dunes occur in sand seas in the south western Kalahari (Goudie, 1970), the Namib (Lancaster, 1983a), Mauritania (Breed and Grow,

1979) and southern Arabian (Holm, 1960). Complex dunes result from the combination of two or more of the basic dune types. Thus star dunes may occur on crescentic ridges as in the Ala Shan and Gran Desierto sand seas (Breed et al., 1979), whilst in the Namib Sand Sea and southern Arabia star dunes and barchanoid ridges may be superimposed upon linear dune ridges (Lancaster, 1983a).

Controls of dune morphology

Remote sensing images have shown that in most sand seas, dune patterns are very regular. This is evidenced by the close correlations which exist between morphometric parameters (height, width and spacing) for all dune types (Breed and Grow, 1979; Lancaster, 1983a; Wasson and Hyde, 1983a,b).

Fryberger (1979), Wasson and Hyde (1983a,b) and Lancaster (1983a) have shown convincingly that wind regime characteristics, especially their directional variability as expressed by the ratio between resultant and total potential sand transport, are the most important control of dune morphology. Locally vegetation plays an important role (Ash and Wasson, 1983) but the influence of sand availability is controversial (Rubin, 1984) as is the role of sediment characteristics.

The importance of grain size and sorting in controlling dune spacing was emphasised by Wilson (1972b), but little empirical support for this hypothesis has been found (Wasson and Hyde, 1983). Very little is known of the factors which influence the equilibrium size and spacing of desert dunes.

Dune sediments

Most desert dunes are composed of fine to medium quartz sand, which is often moderately to well sorted (Table 4). On many dunes, grain size and sorting parameters vary in a systematic way across the dune. Thus on barchans and other transverse dunes sands become finer, better sorted and less positively skewed in the direction of sand transport from stoss to lee slope (Lancaster, 1982d; Barndorff-Nielson et al., 1982). Linear and star dunes are often characterised by coarser, less well sorted sand in basal or plinth areas of the dunes and finer, better sorted sands in crestal and slip face areas. Models which use ideas of selective aeolian transport of grains of different sizes have been put forward to explain grain size and sorting variations of linear dunes by Folk (1971) and Lancaster (1981a; 1986a).

Whereas earlier workers (e.g. Kuenen, 1959) suggested that dune sands were well rounded, modern investigations (Folk, 1978; Goudie and Watson, 1981) have produced evidence that many desert sands, especially in finer size classes, are subrounded to subangular in shape and that the shape of sand grains varies from one sand sea to another.

The red colour of desert dune sands has attracted the attention of investigators for many years. Many dune sands are light yellowish brown (10YR 6/4) to yellowish red (5YR 5/8) in colour. Dunes in semi arid areas such as the Kalahari and Australian sand seas are redder (2.5YR 5/8 to 7.5YR 5/8). It has been widely reported (e.g. Alimen et al., 1957; Logan, 1960; Wopfner and Twidale, 1967; Folk, 1976; Walker, 1979; El Baz, 1978; Anton and Ince, 1986) that

dunes become redder in the direction of transport and thus as the dune sands become older. However, Folk (1976) and Gardner and Pye (1981) suggest that colour is not necessarily a function of age and that temperature, moisture availability and dune activity are also important variables. Wasson (1983b) has also pointed to the significance of different source sediments as an influence on dune colour.

The seminal work of McKee (1957, 1966, 1982) and his co-workers (McKee and Tibbitts, 1964) on the internal sedimentary structures of dunes has shown that they consist of two types of deposits: medium to large scale cross strata with foresets dipping at angles of 30-34°, which result from grain fall and grain flow deposition on slip faces; and sets of low angle strata consisting of laminae deposited by wind ripples. Hunter (1977a) has analysed the basic stratification types of dunes and divided them into those

which accumulate primarily by deposition as ripples migrate across dune surfaces and those deposited in flow separation areas on the upper parts of slip faces. Three orders of bounding surfaces (Brookfield, 1971; Kocurek, 1981) separate sets of dune cross strata. Third order surfaces are reactivation surfaces; second order surfaces result from the migration of superimposed dunes across large forms; and first order surfaces are created by the migration of the larger dunes.

Interdune deposits are common in many sand seas, and are especially extensive in areas of linear and star dunes, but their characteristics are not well known. Depositional interdune areas are subdivided into dry, wet and evaporite types (Ahlbrandt and Fryberger, 1981). Many dry interdune areas consist of low angle strata, with abundant bioturbation and local erosion surfaces (Fryberger et al., 1979; Nielson and Kocurek, 1986).

Table 5
Grain size and sorting characteristics of sands from some sand seas

	Mean	Standard Deviation
Linear Dunes		
Kalahari	2.16	0.49
Simpson Desert	2.53	0.43
Thar Desert	2.65	0.56
Namib	2.44	0.37
Star Dunes		
Gran Desierto	2.44	0.31
Saudi Arabia	2.67	0.32
Namib	2.29	0.29
Crescentic Dunes		
Gran Desierto	2.43	0.41
White Sands	1.51	0.59
Namib	2.20	0.55
Tunisia	2.91	0.32

SUBJECT INDEX

ADHESION RIPPLES

Hunter 1973, 1974; Kocurek & Fielder 1982; Nagtegaal, 1973.

AEOLIAN BEDFORMS

Formation - see also Dunes: formation

Allen 1968,1970,1984,1986; Bloore 1980; Borsy 1976a,b; Brookfield 1977; Cornish 1897,1900a 1914,1923; El Baz & Hassan 1986c; Ellwood et al. 1975; Eltayeb & Hassan 1981,1986; Escande 1949,1953; Exner 1920,1921,1927; Fedorovich 1949, 1948a, b, 1956, 1963; Floyer 1897; Folk 1971, 1976a; Gabriel 1965; Gunther 1907; Hahmann 1912; Heller & Kunin 1933; Karmen 1953; Kennedy 1964, 1969; King 1916; Lancaster 1986c; Matchinski 1953; Norris 1956; Ostrovskiy 1977; Queney 1953; Queney & Dubief 1943; Rubin & Hunter 1982; Sokolow 1894; Tsoar 1986c; Verstappen 1972b; Veyisov 1968; Wasson & Hyde 1986; Wilson 1970, 1971, 1972a,b,c.

On Venus

Basilevsky et al. 1986; Greeley, Marshall & Leach 1984; Marshall et al. 1984.

AEOLIAN DEPOSITION - see Aeolian Sedimentation

AEOLIAN PROCESSES - see also

Sand Transport by the wind

Bagnold 1954; Blackwelder 1954; Braun 1911; Bryan 1922; Clements et al. 1957; Cooke & Warren 1973; Cooke et al. 1982; Czerny 1876; Demangeot 1972; Doornkamp et al. 1980; Dokka 1978; El Baz 1984a; El Baz & Hassan 1986a; First 1965; Gabriel 1979; Goudie & Wilkinson 1977; Greeley 1986,1986a; Greeley & Leach 1978; Howe et al. 1968; McKenna-Neuman & Gilbert 1986; Mabbutt 1977; Mainguet 1976a, 1985; Malin & Eppler 1981; Marker 1978; Meigs 1953,1966; Mensching 1976,1982; Nickling 1986; Pauilhe 1982; Peel 1960,1966,1970; Peel et al. 1974; Petrov 1939,1975; Scheidegger 1961; Schelling 1957; Schick & Sharon 1974; Schwarzbach 1974; Sharp 1962; Smith, H.T.U. 1968b; Sprigg 1965; Stone 1967; Tricart & Cailleux 1962; Walton 1969; Warren 1979; Yair 1978.

In Russia

Fedorovich 1970a,b; 1974; Geld-Dyyeva & Budnikova 1985; Geresimov 1933; Tricart 1953, 1958; Zhunashov & Armageldiyev

1978; Znaminskaya 1963.

On Mars

Arvidson 1972, 1974; Arvidson & Mutch 1974; Arvidson et al. 1979; Baker 1981; Belcher et al. 1971; Breed 1971; Breed & Ward 1979; Breed et al. 1979; Christensen 1983,1986; Cutts & Smith 1973; Gad-el-Hak et al. 1975; Greeley & Iversen 1985; Greeley, Iversen et al. 1974; Greeley, White et al. 1976; Greeley, Leach et al. 1980; Greeley, Malone et al. 1980; Greeley et al. 1983; Greeley, Williams et al. 1984; Guinness et al. 1982; Iversen et al. 1973, 1976; Krinsley & Greeley 1986; Krinsley et al. 1979; Maegley 1976; Mason 1973; Megalhaes & Gierasch 1982; Pollack et al. 1976; Sharp & Malin 1984; Smalley & Krinsley 1979; Thomas 1981, 1982; White 1975, 1979; White et al. 1975, 1979; Wolfe 1979.

Research Orientations

Babayev & Friekin 1957; Coque et al. 1980; Fryberger & Goudie 1981; Leser et al. 1976; McGinnies & Goldman 1969; McGinnies et al. 1968; Seppala 1975; Tada 1975; Thomas 1986c; Wang 1960; Warren 1983,1984; Warren & Knott 1983.

On Venus

Greeley et al. 1980, 1984; Southard et al. 1982; Sundborg 1955; Swan 1962; White 1986.

Planetary Comparisons - see also Terrestrial Analogs

Greeley 1981, 1982, 1986b; Greeley & Black 1978; Greeley & Iversen 1985.

AEOLIAN SANDS - see also Dune Sediments

Ahlbrandt & Fryberger 1982; Bigarella 1972; Boyshenko 1979; Brookfield 1982, 1983; Brookfield & Ahlbrandt 1983; Dapples 1941; Emery 1954; Erinc 1962; Ginzbourg 1971; Khodzhayev 1978.

AEOLIAN-MARINE INTERACTIONS

Chan et al. 1985; Inman et al. 1966.

AEOLIAN SEDIMENTATION

Ahlbrandt & Fryberger 1982; Brookfield 1982, 1983; Collinson 1978; Glennie 1971; Khalaf & Al-Hashash 1983; Kolbuszewski 1950; McKee & Ward 1983; Reineck & Singh 1980; Smalley & Krinsley 1979; Udden 1894; Walker & Middleton 1977.

AEOLIAN SOILS

Bennett 1980; Buckley 1979 a, b, 1981 a,b, 1982b; Butler & Churchward 1983; Churchward 1961, 1963; Felix-Henningsen 1984; Gayell & Trishkovskiy 1962; Gile 1966, 1975, 1979, 1981; Hemming & Trapnell 1957; Jackson 1974; Jauhainen 1970; Khanna et al. 1977; Konecka-Betley 1977; Kovda 1959; Kowalkowski 1977; Li 1965; Li Hsiao-Fang 1965; Licht 1980; McTanish 1984; MacArthur 1962; Manikowska 1977; Miles & Franzmeir 1981; Mulcahy 1973; Prescott & Piper 1932; Prusinkiewicz 1969; Pullan 1969; Ravikovitch 1953; Reifenberg 1947; Rickert & Tebrow 1967; Rim 1950, 1951a,b; Schollz 1972; Shlemon 1978, 1980; Tamhane 1952; Trushkovskii 1970; Van Der Merwe 1954a, b; Van Rooyen & Berger 1974; Williams 1968; Yallon 1978, 1982; Vaychin 1973.

AIRFLOW OVER DUNES - see Dunes:
airflow patterns

BARCHANS

Formation

Clos-Arceud 1965, 1971a,b,c; Howard et al. 1978; Jackel 1980; Smith, R.S.U. 1977, 1980a; Veyisov 1966; Warren & Knott 1983.

Internal sedimentary structures

Embabi 1970; McKee 1966, 1979.

Morphology

Breed et al. 1980; Capot-Rey 1963; Coursin 1956, 1964; Embabi 1978, 1982; Finkel 1959; Hastenrath 1967; Kaiser 1926b; Mainguet 1979; Mityk 1982; Norris 1956, 1966; Norris et al. 1979; Petrov 1948; Pompeckj 1906; Proce 1959; Rempel 1936; Rieman 1978; Simons 1956; Smith, H.T.U. 1956a; Smith, R.S.U. 1972; Vincent Cuaz 1958; Walker & Matsukura 1979.

Movement

Ashri 1970; Barnard 1975; Embabi 1979; Finkel 1959, 1961; Gad-el-Hak et al. 1975; Hastenrath 1967, 1978; Hunting Surveys 1977; Ivanov 1982; Ivchenko 1908, 1910a; Kaiser 1926b; Khodhayev 1983a,b; Landic 1979; Lee 1984; Lettau & Lettau 1969, 1978; Lindsey 1973; Long & Sharp 1964; McKee & Douglass 1971; Norris 1966; Ricard 1980; Simons 1956; Smith, R.S.U. 1970; Trembakowski 1961; Tsoar 1974; Veyisov 1971; Veyisov & Landik 1974.

Sediments

Adylkhodzhaev & Fazilov 1979; Alimen 1953b; Alimen et al. 1958; Amstutz &

Chico 1958; Christensen 1973; Coude-Gaussen & Rognon 1982; Gripp 1961; Finkel 1959; Watson 1986; Nagtegaal 1973; O'Brien 1972.

BOOMING DUNES - see Sound
Producing Dunes

CINDER-ASH DUNES

Chenwoith & Colley 1960; Koscielniak 1973.

CLAY DUNES - see also Lunettes

Bowler 1973; Coffey 1909; Dare-Edwards 1979, 1982, 1984; Dangauss 1979; Huffman & Price 1949; Perthuisot & Jauzein 1975; Price 1933, 1958, 1963; Rabasso 1975; Ross 1960; Stelling & van de Wern 1981; Teller 1972.

COPPICE DUNES - see also Nebkha,
Shadow dunes

COLD CLIMATE DUNES - see also
Pleistocene Periglacial Dunes.

Formation

Churska 1969; Gardziel 1979; Kobenzina 1969; Koster 1984; Seppala 1971.

General features

Ahlbrandt & Fryberger 1982; Cameron 1969; Fristrup 1952; Miotke 1981; Seppala 1972a, 1961, 1975; Smith, H.T.U. 1949a.

Morphology

Alaska

Walker 1967.

Antarctica

Calkin & Rutford 1974; Lindsey 1973; Mather and Miller 1966; Rutford & Calkin 1974; Selby et al. 1974.

Canada

David 1977b, 1978, 1979b, 1981, 1982; Dionne 1978; Filion & Morisset 1980; Gauymond 1962; Hermesh 1972; Lovell 1962; MacFarlane 1972; Pissart 1975; Pissart et al. 1977; Rochette & Cailleux 1971; Row & Abouguena 1982; Smith, D.G. 1980.

Finland

Aartolahti 1972; Seppala 1971, 1972.

Germany

Hartnack 1925, 1931; Jentsch 1900; Kaubler 1974; Kretschmer et al. 1971; Musset 1923; Nowel et al. 1972; Priesmier 1970; Reinecke 1903; Roth 1900; Solger 1910a,b; Theilen 1978; Wildvang 1936.

Greenland

Belknap 1928.

Norway

Klemsdal 1969

Poland

Galon 1959,1969a,b; Gawlik 1979; Izmailow 1978,1984; Jahn 1972; Kristapavichus 1968; Krol 1922; Lencewicz 1922; Malakowski & Lencewicz 1953; Schoeneich 1958; Szczepk 1980; Urbaniak 1969b; Urbaniak-Biernacka 1976.

Sweden

Agrell 1980,1981; Horner 1927; Seppala 1972a,b.

USA

Ahlbrandt 1973,1974a,b,1975,1982; Ahlbrandt & Andrews 1977,1978; Carlisl & Marrs 1982; Gaylord 1979,1982; Hickock et al. 1982; Kolm 1973,1974,1982,1985; Kolm & Marrs 1972; Kolm et al. 1975; Lehotsky 1972; McKenzie 1982; Patrone 1970; Steidtmann 1973,1982; Wilson 1980.

USSR

Demin 1973,1974.

Processes

Borsy 1971,1972,1974; Galon 1969a; Hansen 1957; Hopkins 1935; Jahn 1972; Jonassen 1954; Krafewski 1977; Kulhman 1957; Landsberg & Riley 1943; McFarlane 1972; McKenna-Neuman & Gilbert 1986; Miotke 1974; Nickling 1976; Pissart 1966, 1975; Seppala 1972c; Witek 1970; Pyritz 1974.

Sediments

Ahlbrandt 1975,1979,1982; Ahlbrandt & Andrews 1978,1982; Borowka 1979; Dylikowa 1969a; Evans 1944; Florek 1975,1980; Galon 1969a; Galloway 1982; Koster 1978,1982; Krygowski 1958; Mettler 1955; Mycielsska-Davigallo & Kzywoblocka-Lavrov 1975; Nowaczyk 1976b,1977; Penarowski 1959; Seppala 1969; Urbaniak 1962,1966,1969a; Urbaniak-Biernacka 1973a,b,1976b; Warren 1976; Witek 1969; Wojtanowicz 1970.

CRESCENTIC DUNES - see Barchans, Transverse Dunes

DEFLATION

Andreichuk 1982; Babayev & Chrednichenko 1972; Bayramov 1971; Belgibayev 1975; Borsy 1964,1971,1972,1974; Durand 1953.

DOME DUNES

Holm 1953,1960.

DUNES

Airflow patterns

El-Sherbiny & Bofah 1982; Gad-el-Hak et

al. 1975; Howard et al. 1978; Howard & Walmsley 1985; Hoyt 1966; Jensen & Zeman 1985; Kamichika et al. 1981; Lai & Wu 1978; Lancaster 1985a; Landsberg 1942; Landsberg & Riley 1943; Livingstone 1986; Marrs & Kolm 1982; Richards 1986; Tsoar 1978,1985; Tsoar et al. 1985; Walmsley & Howard 1985; Warren & Knott 1983; Wojciechowski 1979.

Bibliographies

Busche et al. 1984; Kobendzina & Urbaniak 1969; Niessen et al. 1984; Warren 1969.

Classification

Clos-Arceuduc 1972; Crowe 1975; Holtenburger 1913; Kadar 1977; McKee 1979a; Mainguet 1976d,1983a,1984b; Mainguet & Chemin 1983; Melton 1940; Smith, H.T.U. 1940b, 1953.

Conservation

Buckley 1982a.

Crusts

Barbey & Coule 1976.

Dating

Huhou 1983; Jonassen 1954; Linke 1968; Pye & Singhvi 1982; Setlow 1978; Singhvi et al. 1982; Squires 1963.

Formation - see also Aeolian Bedforms formation

Anthropogenic Influences on

Cherednichenko 1970; Conacher 1971.

Moisture Content

Gupta 1979; Mann et al. 1976.

On Mars

Breed 1977; Craig et al. 1980; Greeley 1968, 1979; Leach 1979; McCauley et al. 1981; Smith, R.S.U. 1980c; Thomas 1982; Tsoar et al. 1979; Tsoar & Greeley 1980; Ward & Doyle 1983; Ward et al. 1985.

Role in landform development

Busche & Hagedorn 1980; Lang 1964; Lustig 1969; McGinnies 1979.

DUNE MORPHOLOGY

Alimen & Mercier 1948; Anon 1983; Aufrere 1928a,1929; Bashin 1899, 1900,1903; Beadnell 1909a; Breed & Grow 1979; di Caporiacco 1936; Cornish 1908, 1928; Corsi & Warrick 1984; Molm 1968; Howard 1975; Jennings & Hagedorn 1983a,b; Petrov et al.1979; Ritter 1898; Smith, H.T.U. 1946,1969; Yate 1894.

Controls on

Mabbutt 1982; Rubin 1984; Walther 1951; Wasson & Hyde 1983a.

Sediments

Bellair 1962; Lancaster 1983a; Tsoar 1986a; Warren 1972,1974; Wasson & Hyde 1982,1983b; Wilson 1972.

Wind regimes

Aufrere 1928b,1930,1932; Bagnold 1953b; Besler 1972b; Brookfield 1970; Capot-Rey & Capot-Rey 1948; Carlisle & Marrs 1982; Clos Arceduc 1967; Enquist & Frederick 1932; Fryberger 1979; 1980; Landsberg 1956; Lancaster 1983a; Mainguet 1982b; Mainguet et al. 1974; Martin & Nairn 1975; Reid 1985; Rosenenan 1954; Smith, R.S.U. 1978a,1979; Tsoar 1974, 1985; Warren 1970,1972,1976a..

Descriptions

Arabian Peninsula

Bagnold 1951; Besler 1982b; Beydoun 1966; Breed et al 1979; Cavellier 1970; Embabi & Ashour 1983; Holm 1960; Jawad & Al-ani 1983; Lamare 1933.

Australia

Breed et al 1979; Coaldrake 1954; Daniels 1969; Graetz et al. 1982; Hills 1939b, 1953; Jutson 1918,1934; Laut et al 1977; Mabbutt 1961,1962,1963,1967,1968,1969,1971,1977,1980,1984; Mabbutt et al. 1963; Madigan 1930,1938,1945,1946; Purdie 1984; Simonett 1949; Smith et al. 1975; Twidale 1972b,1980,1981b; Walker 1982; Wasson 1976; Williams 1979; Wopfner & Twidale 1967.

Central Asia

Berkey & Morris 1927; Lang & Pias 1971; Petrov 1960,1966,1967; Selivanov 1961,1969; Tada 1963; Ting 1958; Trebacowski 1969,1976; Yepifanov 1973.

China

Academia Sinica 1979; Breed et al 1979; Buckley et al. 1986; Chao Sung-Chiao 1981a,b,1984a; Gao Zhaoshan 1985; Hedin 1896,1905; Horner 1936,1937; Jorre 1936; Liu 1952; Walker 1982; Yang et al. 1982; Yu et al. 1962; Zu Zenda 1979, 1984; Zu Zenda et al. 1980.

Indian sub-continent

Abu Bakr 1963; Ahiya et al. 1980; Biswas 1966; Blanford 1876,1877; Breed et al 1979; Mukerji 1961; Narusi 1975,1977; Oldham 1903; Pandey 1971; Saxena & Singh 1977; Singh 1977a; Singh et al. 1972; Snead 1966; Tale 1904; Verstappen 1970

Iraq

Al-Saadi 1972.

Israel

Tsoar 1970,1974.

Kalahari

Breed et al 1979; Goudie 1969, 1970; King 1939, 1978; Leser 1972; Lewis 1936; McKenzie 1952; Range 1936; Rogers 1934, 1936; Thomas 1986a.

Mexico

Greeley, Christensen et al. 1984; Heine 1972; Ives 1959; Marston & Schmidt 1981; May 1973; Schimidt & Marston 1983.

Middle East

Beaumont et al. 1976; Gabriel 1938,1957; Hallier 1976; Johnstone & Wilkinson 1960; Kaul & Thalen 1979; Perez & Oviedo 1985; Petrov 1971; Selivanou 1982; Wirth 1958.

Namib

Barnard 1973; Besler 1972a, 1977b,1980; Breed et al 1979; Bremner 1984; Do Amaral 1982; Gevers 1936; Goudie 1972; Harmse 1980; Kaiser 1926a,b; Kayser 1973; King 1939,1978; Lancaster 1980, 1982a, 1983a; Leser 1971; Logan 1960, 1969; McKee 1982a; Martin 1950; Michel 1979b; Rust & Weinecke 1976; Seely 1975,1978; Shackley 1980,1982; Soares de Carvalho 1961; Spreitzer 1963; Trenk 1910; Watson & Lemon 1985; Wilmer 1894.

New Zealand

Cockayne 1911.

Peru

Bailey 1899; Barclay 1917; Broggi 1961; Douglass 1909; Dresch 1961; Grolier et al. 1979; Harrington 1961; Kinzl 1958; Lettau & Lettau 1978; Simons & Ericksen 1953.

Sahara

Aufrere 1935; Bellair 1938a; Breed et al 1979; Capot-Rey 1953b; Carnier 1891; Chudeau 1900, 1907,1909a,1911,1920; Clos Arceduc 1969b; Dufour 1936; Gautier 1935; Hachisuka 1932; Jordan 1965; Le Lubre 1950,1952; Matschinski 1954; Perret 1961; Rolland 1881; Schiffers 1971a,b,1973a; Smith, H.T.U. 1969; Sourdat & Gense 1970; Williams & Hall 1965;Wilson 1971.

Sahara - Central

Biot et al. 1955; Chudeau 1907; Grove 1960; Hagedorn 1971, 1974, 1979a,b; Meckelein 1960; Peel 1979.

Sahara - Egyptian

Bagnold 1931, 1933a,1935a; Beadnell 1901,1909b,1910,1934; Butzer 1961; Cornish 1900b; Embabi 1967; Forth de Lancey 1930; Geigengack & Underwood 1980; Hume 1909,1921,1925; Hurst 1909; Kadar 1934; Kamel 1953; Kamel et al. 1982; King 1912; McCauley et al 1980; Mitwally 1953; Pribly 1970; Said 1962,1983; Sandford 1933a,b,c, 1935,1953; Shaw 1936; Simons 1973; Squyres & Bradley 1964; Wingate 1934; Wright 1945; Yakubov 1968.

Sahara - Libya

Crema 1953; Kanter & Schiffers 1973.

Sahara - Northern

Besler 1977a,1984; Capot-Rey 1941, 1943,1945,1947,1953a; Flamand 1899,1919; Grandet 1955, 1957; Matschinski 1952; Passarge 1940; Suzuki 1978; Verlaque 1958.

Sahara - Southern

Chudeau 1910,1915a,1918; Cresch & Rougerie 1960; Hagedorn 1968; Schiffers 1973b; Tricart 1959,1965; Tricart & Brochu 1955; Tricart et al. 1960; Urvoy 1933a,b, 1936; Worrall 1974.

Sahara - Western

Aubrinieres 1935; Barbey 1971; Bayard 1947; Chamard & Courel 1975; Chudeau 1909b,1910,1915b; Daveau 1965; Monod 1928,1958,1961,1962; Sall 1973; Sevenet 1943; Suter 1973; Tricart 1955.

Somalia

Hassan 1980.

South America

Enock 1908; Khobzi 1981; Le Carpentier 1973; Martin et al. 1979; Picard 1977; Roa Morales 1973; Segerstrom 1964; Tricart 1966; Tricart & Alfonsi 1981.

Syria

Kosmowska-Suffczynska 1980; Mycielska - Davigallo 1980.

USA - South West

Andrews 1978,1981; Bender 1982; Burford 1961; Crosswhite & Crosswhite 1982; Dean 1978b; Dregne 1984; Eardley & Earl 1981; Elson 1984; Fowler & Koch 1982; Greeley et al. 1978; Green 1961; Hack 1941; Hefley & Sidwell 1945; Johnson 1967,1968,1971; Kampe 1979; Larson 1970; Mac Dougal 1912; Mac Mahon 1979; Medellin-Leaf 1982; Pool 1913; Merk 1960,1973; Morrison 1985; Murburger 1950; Price 1944; Roberts 1970; Roethele 1981; Rowlands et al. 1982; Russell 1932; Sharp 1966, 1978, 1982; Smith, R.S.U. 1978c,1982; Waitt 1969; Wegeman 1939; Wiegand 1977; Wilde 1982.

USA - California

Beheiry 1967; Dean 1978a; Evans 1962; Eymann 1953; Garrett 1966; Reed 1930; Smith, R.S.U. 1984; Thompson 1929.

USSR

Atakhonov 1983; Breed et al 1979; Bykov 1932; Bylov 1981; Doscatch 1948; Dobiansky 1928; Gherismov 1931; Gorelov et al. 1984; Heller 1932; Khodzhayev 1974,1978; Lebedev 1978; Leontev & Foteyeva 1965; Melamed 1969; Nevyazhskii 1970; Nevyazhskii & Biozheiv 1960; Nikiforov 1960; Ovchinnikov 1970; Petrushevskii 1937; Rachkovskaya & Gunne

1980; Rahkmatov & Nazorov 1982a,b.

DUNE MOVEMENT

Andreichuk 1985; Beckwith 1951; Brera 1979; Busch & Besler 1982a,b; Cowles 1911; Kocurek & Oakes 1985; Nigra 1974; Rim 1948,1958; Watson 1985.

DUNE PROCESSES

Aime & Penven 1982; Chu Chen Ta 1963; Chu Chen Ta et al. 1961; Cooper 1958,1967; Kolm 1982.

DUNE SEDIMENTS

Ahlbrandt & Fryberger 1982; Backhaus 1972; Bagnold 1933b; Barbey et al. 1975; Brown 1959; Cailleux 1952a; Chain 1963; Glennie 1970; Goudie et al. 1979; Grabau 1913; Jones 1959; Kimura et al. 1970; Kocurek & Nielson 1985; Kuenen 1959; McKee 1976; McKie 1899; MacCarthy 1935; Marker 1979; Misra & Verma 1957; Monod & Cailleux 1945; Moss 1962; Pettijohn et al. 1972; Sidorenko 1956; Smith & Snead 1961a,b; Steidtmann & Haywood 1982; Whincup 1944.

Analysis

Dalsgaard & Sorensen 1985; Dalsgaard & Jensen 1985; Hand 1967; Harris 1958 a,b; Moiola & Spencer 1979; Moiola et al. 1974; Reed et al. 1975.

Bioturbation

Ahlbrandt et al. 1978.

Color

Anton & Ince 1986; El Baz 1978a; El Baz & Hassan 1986b; Folk 1976b; Gardner 1981,1983; Gardner & Pye 1981; Herzig & El Baz 1980; McKay et al. 1980; Norris 1969; Prestel et al. 1979; Price 1962; Pye 1981,1983; Setlow 1978; Van Houten 1973; Walker 1967,1979; Wasson 1983c.

Diagenesis

Pye 1983; Schenk & Fryberger 1986; Schmanlz 1968; Van Houten 1973; Walker 1967,1979.

Grain size and sorting characteristics

Ahlbrandt 1979; Alimen 1953a,b; Alimen et al. 1957,1958; Alimen & Fenet 1954; Anton 1983; Ashour 1983; Baba & Komar 1981; Bagnold & Barndorff-Nielsen 1980; Barndorff-Nielsen & Darroch 1981; Barndorff-Nielsen & Christensen 1985; Barret 1930; Besler 1983b; Binda 1983a,b; Binda & Hildred 1973; Capot Rey 1965; Chakrabarti 1965,1968; Chaudri & Khan 1981; Cotera 1976; Cui et al. 1983; Flenley 1985; Folk 1962,1968,1970,1971; Franzmeir 1970; Freidman 1961,1973,1979;

Galloway 1982; Glennie 1970; Hamdam 1956; Harris 1955,1957; Jaskowi & Kowalski 1977; Keller 1945; Lomborunczen et al. 1976; Mason & Folk 1958; Mattev 1982; Moiola & Weiser 1968; Newell & Boyd 1955; Petrov 1961,1962; Seppala 1969; Sevon 1966; Shephard & Young 1961; Sidwell & Tanner 1939; Simonett 1960,1961; Skocek and Saadallah 1972; Sneh & Weisbrod 1983; Taira & Scholle 1979; Thomas 1986b; Tricart & Mainguet 1965; Tsoar 1976; Tucker & Bacher 1980; Udden 1898; Van Rooyen & Verster 1983; Vincent 1985; Visser 1969; Vossmervaumer 1974; Wyrwoll & Smyth 1985; Xing-Zhen & Zhong-Hai 1981.

Grain size & sorting - spatial variations

Barndorff-Nielsen et al. 1982; Carroll 1944; Lancaster 1981c,1982c,d,1986a; Vincent 1984; Watson 1986.

Grain shape

Beal & Shepard 1950; Cailleux 1952b; Folk 1969,1978; Glennie 1970; Goudie & Watson 1981; Hamdam 1965; Herzig & El Baz 1980; Jaskowi & Kowalski 1977; Khalaf & Gharab 1985; Krumbein 1941; McKie 1897; MacCarthy & Huddle 1938; Mattaax 1955; Mazullo et al. 1984,1986; Nielson 1985; Petro & Sahu 1977; Rust & Wienecke 1973; Sahu 1982; Seppala 1969; Twenhofel et al. 1945; Winklenden 1971.

Grain surface texture and morphology

Al Saleh & Khalaf 1982; Baker 1976; Barbey et al. 1974; Bigarella et al. 1973; Bond 1954; Cailleux 1972; Cailleux & Wuttke 1964; Galloway 1922; Griffin 1983; Kaldi et al. 1979; Krinsley & Doornkamp 1973; Krinsley & McCoy 1979; Krinsley & Smalley 1972; Krinsley & Takahashi 1962; Krinsley & Cavellero 1970; Krinsley & Wellendorf 1980; Kuenen & Perdok 1961,1962a,b; Margolis & Krinsley 1971; Mycielska-Davigallo & Kzywoblocka-Lavrow 1975; Smith & Whalley 1981; Veblen et al. 1981.

Internal structures

Allen 1984; Besler 1981; Brookfield 1977; Ellwood & Howard 1981; Fryberger & Schenk 1981; Glennie 1970; Goldsmith 1973; Hunter 1973,1974,1977a,b,1980; Hunter & Rubin 1983; Hunter et al. 1983; Ivchenko 1910b; Kocurek 1986; Kocurek & Dott 1981; Lewis & Titheridge 1978; McKee 1957,1966,1969,1978,1982,1983; McKee & Tibbetts 1964; McKee & Bigarella 1979; McKee et al. 1971; Mozhaev et al. 1984; Schenk 1983; Smith, H.T.U.

1942; Steidtmann 1982; Steidtmann & Haywood 1973; Swinehart 1972,1986; Thompson 1932; Yaalon & Laronne 1971.

Mineral Composition

Baillieul 1972,1973,1975; Bellair 1938b, 1939,1941,1943,1945,1953b; Bigarella et al. 1973; Binda 1972; Briggs 1983; Burford 1961; Curtis 1983; Fryberger et al. 1983,1984; Herzig & El Baz 1980; Minarikowva 1973; Mizutani & Suwa 1966; Petrov 1961,1962; Raukas 1968; Rim 1953a,b; Skocek & Saadallah 1972; Stuart 1924; Tsoar 1976; Wasson 1983c.

Porosity

Kolbuszewski 1953; Kolbuszewski et al. 1950.

Provenance

Abbott 1980; Ahlbrandt 1974a; Al-Saadi 1972; Bryan & McCann 1943; Cayeux 1928; Cotera & McCauley 1977; Coude-Gaussen et al. 1982; Goudie & Sperling 1977; Hsu Chun-Min 1965; Hutchinson 1969; Ives 1959; Lancaster & Ollier 1983; McCoy et al. 1967; Mainguet & Vimeaux-Richeux 1981; Mainguet et al. 1983; Merriam 1969; Poldervaart 1957; Rogers 1977, 1979; Segerstrom 1962; Selivanov 1969; Snead & Frishman 1968; Wasson 1983c; Zielinska 1980.

Texture - see grain size and sorting characteristics

DUNE STABILISATION

Academia Sinica 1958,1962a,b; Alvarez de Benito 1974; Anon 1950; Babayev 1978; Dewers 1935; Dougremiji & Kaul 1972; Godfrey 1974; Hagedorn et al. 1977; Kaul 1970; Kerr & Nigra 1952; Lehotsky 1972; Leone 1953; Petrov 1983; Phillips & Willetts 1978; Tsuriehl 1974; Watson 1985; Woodhouse 1978.

DUNE VEGETATION

Ayyad 1973; Buckley 1979a,b,1981a,b, 1982b; Conacher 1971; Crocker 1946; Dieren 1934; Evaenaru et al. 1985; Goldsmith 1973; Goodall et al. 1979; Hermesh 1972; Kobenza 1970; Kobenzina 1969; Leistner 1967; Randell 1958; Rempel 1936; Robinson & Seeley 1980; Satterwhite & Ehlen 1981; Schulze & Whitney 1986; Story 1982.

DUNEFIELDS - Quaternary History see also Sand Seas Quaternary History Japan

Niigata Ancient Dune Research Group

1974,1978; Nishizawa 1978; Tada et al. 1971; Tomioka et al. 1974.

South America

Tricart 1961,1969,1974,1977.

USA - Southwest

Christian 1970; Clarke 1979; Clements 1977; Dohrenwend et al. 1984; Dorn 1986; Evans 1963; Evans & Meade 1945; Everard 1964; Mehringo & Wingand 1986; Schulz 1980; Smith, H.T.U. 1967; Wells 1983; Wells et al. 1982.

ERGS - see Sand Seas

FIXED DUNES - see Dunefields or Sand Seas - Quaternary History

GYPSUM DUNES - see also Lunettes

Eardley 1962; Jones 1953; McKee 1966; Talmage 1932; Trichet 1963,1968.

INTERDUNE SEDIMENTS

Ahlbrandt 1979; Ahlbrandt & Fryberger 1981; Folk 1968,1970; Fryberger et al. 1983; Kocurek 1981,1986; Sharp 1979; Simpson 1983; Simpson & Loope 1985; Yaalon & Ward 1982.

LINEAR DUNES

Formation

Crowe 1975; Folk 1971,1976a; Hanna 1969; Hastings 1971; Higgins et al. 1974; Hunter et al. 1983; King 1956,1960; Lancaster 1980b, 1982b 1983c; Livingstone 1986; Mabbutt & Sullivan 1968; Monterin 1935; Price 1950; Rosenan 1954; Striem 1954; Tseu 1986; Tsoar 1978a,b, 1983a,1982; Tsoar & Moller 1986; Twidale 1972a, 1981a; Verstappen 1968,1972b; Wasson 1983a,c.

Morphology

Barnard 1973; Bienman 1982; Breed & Breed 1978,1979; Breed & Grow 1979; Breed et al. 1984; Buckley 1979a,b,1981a,b,1982b; Clarke & Prestley 1970; Clos Arceduc 1969b,1973a,b; Daniels 1969; Flint & Bond 1968; Folk 1970; Lancaster 1981a, 1982b,c,1983c; Lewis 1936b; Mabbutt 1962,1968; Mabbutt & Wooding 1983; Mabbutt et al. 1969; Madigan et al. 1969; Price 1964; Thomas 1986a; Twidale 1972a,b,1980,1981a; Wopfner & Twidale 1967.

Movement

Besler 1975; Ward 1984; Ward & Von Brunn 1985.

Processes

Besler 1986; Livingstone 1986; Tsoar

1978a,b,1983a,1985,1986b; Tsoar & Yaalon 1983.

Sediments

Grain size and sorting characteristics

Alimen 1953b; Alimen et al. 1958; Besler 1976,1980; Carroll 1946; Crocker 1946; Folk 1970; Lancaster 1981c,1982c,1986c; Wasson 1983c; Watson 1986.

Internal structures

Breed & Breed 1978; McKee 1982a; McKee & Tibbitts 1964; Tsoar 1978a,b,1982b.

LUNETTES - see also Clay Dunes, Gypsum Dunes

Bettenay 1962; Boulaine 1953,1954,1956; Bowler 1967,1968,1971,1973,1975,1976, 1983; Campbell 1968; Coffey 1909; Coque 1979; Coque & Jauzein 1967; Everard 1964; Goudie & Thomas 1985,1986; Greenwood 1983; Hills 1939a; Huffman & Price 1949; Lancaster 1978,1986b; McDowell 1984; Macumber 1970; Page 1971; Passarge 1911; Perthuisot & Jauzein 1975; Price 1963; Reeves 1965, Smith, H.T.U. 1972; Stephens & Crocker 1946; Tricart 1954; Twidale 1972a,b,1980,1981; Wopfner & Twidale 1967.

NEBKHA - see Shadow Dunes

PARABOLIC DUNES

Anton & Vincent 1986; Bowden 1983; Breed et al. 1984; David 1977b,1978,1982; Hack 1941; Hefley & Sidwell 1945; Hirault 1966; Jennings 1957; Jungerius et al. 1981; Kostyukovskiy 1974; Lewis 1960; Odynsky 1958; Story 1982; Thomspson 1983; Wells 1982a.

Internal Sedimentary Structures

Bigarella 1975a,b,1979; McKee 1966.

PERIGLACIAL COVER SANDS - See also Cold Climate Dunes; Quaternary Periglacial Dunes

Cate 1969; Crommelin 1964; Koster 1978,1982; Pyritz 1972; Nowaczyk 1967, 1976a,1977; Rutten 1954; Ruegg 1983; Straw 1963.

QUATERNARY PERIGLACIAL DUNES - see also Cold Climate Dunes
Morphology

Canada

Abrahamson 1972; Bayrock & Hughes 1962; David 1971,1977a,b,1979a,1981; Dionne 1978; Lovell 1967; Mott 1969; Pyskin & Davidson-Arnott 1985; Smith,

R.S.U. 1980.

Europe

Cailleux 1936,1942; Hogbom 1923; Poser 1950; Straw 1963; Zeremski 1972.

Europe - Central

Ban et al. 1964; Borsy 1977; Borsy et al. 1982; Nagy 1974; Pelisek 1963,1972; Pribly 1972; Radulescu 1968; Schmidt 1971.

Finland

Lindroos 1972.

France

Allier 1966; Cailleux 1941,1951; Mouline 1970.

Germany

Gerhardt 1900; Habbe 1974; Hamblock 1958; Jentsch 1900; Kaubler 1974; Keilack 1918; Korn 1919; Louis 1929; Molner 1961; Pyritz 1972; Roth 1900; Schenze 1968; Solger 1905; Theilen 1978; Wilckens 1926.

Netherlands

Cate 1969; Cleveringa et al. 1977; Crommelin 1964,1965; Koster 1978,1982; Maarleveld 1960; Ruegg 1983; Rutten 1954; Vandenberghe & Krook 1981.

Poland

Ambroz 1947; Bogacki 1969; Borowka 1975,1979; Borsy 1965; Chmielewska & Chmielewski 1960; Chmielewska & Wasylikova 1961; Dylak 1969; Dylikowa 1958,1964,1968b; Galon 1958,1959, 1969a,b; Gozdzik 1981; Izmaïtow 1975; Jahn 1956; Jarnia & Szczypek 1980; Kadar 1938; Kepczynski 1958; Kobendzina 1961,1969; Kobendzina & Kobendza 1958; Kobendza 1970; Kowalowski 1977; Kozarski et al. 1970; Kozarski & Tolbolski 1968; Krafewski 1979; Laskowski 1981; Lencewicz 1922; Lynzewska 1968; Madjanowski 1958; Malakowski 1917; Malakowski & Lencewicz 1953; Manikowska 1977; Maruszczak 1958; Maruszczak & Trembaczowski 1960; Mrozek 1958; Mycielska-Davigallo 1965; Mycielska-Davigallo & Kzywoblocka-Lavrow 1975; Nowaczyk 1967, 1976a,b,1977; Nowicka 1958; Okolowicz 1969; Penarowski 1958,1960, 1962,1966; Pilarczyk 1958,1976; Polianski 1956; Roszko 1969; Rotnicki & Toboloski 1969; Sawicki 1958; Schoenich 1958; Szczypek 1976,1980; Tobolski 1969; Trembaczowski 1948; Urbaniak 1967; Urbaniak-Biernacka 1973a,b,1975,1976a; Witek 1970; Wojtanowicz 1968,1970,1972.

USA

Alaska

Black 1951; Carter 1981,1982; Cox & Lawrence 1983; Fernald 1964; Galloway et al. 1985; Trainer 1961.

Lower 49 States

Ahlbrandt 1974a,b; Ahlbrandt et al. 1983; Carlisle & Marrs 1982; Chase 1977; Cobb 1931; Conally et al. 1972; Denny & Owens 1979; Dineen et al. 1978; Donahue 1977; Dart 1959; Evans 1944; Grigal et al. 1976; Hickok et al. 1982; Holliday 1984; Huffington & Albritton 1941; Kelley 1962; Knapp 1983; Lewis 1960; Mettler 1955; Muhs & Madden 1980; Olson 1958; Patrone 1970; Saucier 1978; Sidwell & Tanner 1938; Simonett 1960; Smith, H.T.U. 1938,1940,1964; Synder 1985; Thorp & Smith 1952; Trimble & Carr 1976; Wells 1977; Whitefield 1937; Wilson 1980.

Nebraska Sand Hills

Ahlbrandt & Fryberger 1980; Ahlbrandt et al. 1983; Bradbury 1980; Keech & Bentall 1971; Maroney & Swinehart 1978; Smith, H.T.U. 1949b,1965,1968a; Warren 1968,1976; Wells 1982b.

USSR

Bulgareau 1971; Gudelis & Vaitoniene 1976; Konischev & Lyubimow 1968; Vaychis 1973.

REMOTE SENSING

Ashburn & Welson 1956.

Aerial Photography

Clos Arceduc 1969a,c,1969/1970; Davis & Neal 1963; Garelik et al. 1976; Hirault 1966; Jordan 1982; Kamel et al. 1982; Kolm & Marrs 1977; Mabbutt & Woodling 1966; Mallick et al. 1981; Mirkin et al. 1974; Miszalski 1974; Nicolaev 1960; Revzon et al. 1982; Sen 1967,1977; Smith, H.T.U. 1956b,1969; Sterckx 1974.

Landsat

Asem et al. 1982; Berlin et al. 1985; Brera 1979; Canon & Galichet 1975; Chao Sung-Chiao 1984b; Chemin et al. 1982; Craig et al. 1980; El Baz 1976,1978a,1979a,b, 1984a, b; Everett et al. 1984; Grolier & Schultejann 1982; Kharin et al. 1980; Kolm 1973,1974,1985; Kolm & Marrs 1977; Kolm, et al. 1975; Kvartsova et al. 1976; McKee 1975,1982b; McKee & Breed 1974a,b,c; McKee et al. 1973,1975,1977; Mainguet 1972d,1976b,c,d,1982c,d,1984a; Mainguet & Chemin 1981; Mainguet et al. 1980; Mallick et al. 1981; Marie 1983; Maxwell 1982; Revzon et al. 1982; SeEVERS et al. 1975; Striem & El Baz 1982;

- Williams 1982.
- Orbital Photography**
El Baz 1976,1978a,19790a, 1984b; Fujita 1967; McKee & Breed 1974b; Mainguet 1976d,1984a; Morrison & Chown 1964; Pesce 1968; Verstappen 1972a; Verstappen & Van Zuidam 1970; Warner & El Baz 1979.
- Radar**
Berlin et. al. 1985; Blom 1981; Blom et al 1979; Brown & Saunders 1978; Greeley, Christensen et al. 1984; Marie 1983.
- SAND ENCROACHMENT**
Academia Sinica 1979; Albolkhair 1981; Duchemin 1958; Hidore & Albolkhair 1982; Hunting Surveys 1977; Sivakov 1973.
- SAND SEAS - see also Dunefields**
- Archaeology**
Carbonnel & Barbey 1972; Clark 1973; Corvinus 1978; Shackley 1980,1982; Sigleo & Colhoun 1982; Smith, D.M. et al. 1975.
- Dune Patterns**
Breed et al 1979; McKee 1979a,b, 1982b,1983; McKee & Breed 1974a,c,1976; McKee et al. 1973,1974, 1977; Mainguet 1976d,1982c; Mainguet & Callot 1974,1978.
- Formation**
Chao Sung-Chiao1981b; Chao Sung-Chiao & Jiaming 1982; Clos Arceduc 1966; Fryberger & Ahlbrandt 1979; Porter 1986; Wasson & Hyde 1986; Wilson 1967, 1971,1973; Zheng 1981.
- General Descriptions**
- Arabian Peninsula**
Bender 1975; Brown 1960, Bunker 1953; Chapman 1978; Dutton 1986; Phillips 1882; Powers et al. 1966; Shata 1971; Thesiger 1949; Whitney 1983; Whitney et al. 1983.
- Australia**
Clapp 1926; Conacher 1971; Crocker 1946.
- Sahara**
Capot Rey 1941,1943,1947,1970; Kadar 1934; Mainguet & Callot 1978; Mainguet & Chemin 1983.
- Origins**
Abichandi & Roy 1966; Ahmed 1969; Alimen 1982; Raikes 1969; Smiley 1982.
- Recent Environmental Change**
Barth 1982; Dorize 1974; Grove 1974, 1977; Mainguet 1980,1986; Mainguet & Chemin 1980,1981; Ohmori 1980.
- Sediments**
Alimen & Fenet 1954; Alimen et al. 1958; Angelis 1937; Aubert 1978; Bellair 1939;1940a,b,1941,1953b; Bourcart & Malycheff 1926; Capot Rey 1965; Faure 1960; Fryberger et al. 1984; Petrov 1961,1962; Xu & Xu 1983; Xu et al. 1982.
- Quaternary History**
Goudie 1972a; Klammer 1982; Sarthein 1978; Street 1981; Thomas & Goudie 1984; Williams 1975,1985.
- Arabian Peninsula**
Al-Syarai & Zotl 1978; Anton 1984; Chapman 1971; Gerson 1982; Hotzl et al. 1978; Murray 1946; Whitney 1980,1981,1983; Whitney et al. 1983.
- Australia**
Beard 1983; Bowler 1975,1976,1978a,b; Bowler & Narford 1963; Bowler & Magee 1978; Bowler & Wasson 1983; Brookfield 1970; Davies 1967,1974,1983; Firman 1982; Glassford & Killigrew 1976; Jennings 1968,1975; King 1956,1960; Langford Smith 1982; Sprigg 1979,1982; Twidale & Wopfner 1981; Wasson 1983,b,c,1986; Webb & Wopfner 1961; Williams 1973; Wopfner & Twidale 1967; Wyrwoll & Milton 1976.
- Central Asia**
Kes 1973; Romanova 1971.
- China**
Guang-Rong et al. 1983; Murzayev 1967.
- Indian sub-continent**
Allchin & Goudie 1971,1978; Allchin et al. 1978; Goudie et al. 1973; Hegde 1982; Hegde & Sychanthavong 1982; Higgins et al. 1973; Misra & Misra 1982; Seth 1978; Singh et al. 1974; Singh 1977b,1985; Verstappen 1970; Wasson et al. 1983.
- Kalahari**
Cooke 1975,1980,1984; Cooke & Verstappen 1984; Deacon et al. 1983; Flint 1959,1976; Flint & Bond 1968; Gray & Cooke 1977; Grove 1969; Heine 1981,1982; Jones 1982; King 1952; Lancaster 1979, 1980c, 1981b,1984b,1986b; Mallick et al. 1981; Passarge 1904; Rust 1984; Thomas 1984; Van Zinderen Bakker 1980; Verboom 1974; Wayland 1953; Williams 1982; Wright 1978.
- Namib**
Beaudet & Michel 1978; Besler 1979,1980,1983; Deacon et al. 1984; Eriksson 1978; Fulfaro & Torquato 1975; Lancaster 1979; Ollier 1977; Rogers 1977; Rust 1979,1980; Rust & Schmidt 1981; Selby 1976,1977; Teller & Lancaster 1985, 1986 a,b; Tankard & Rogers 1978; Torquato 1970,1974; Van Zinderen Bakker 1975,1980,1984; Weinecke 1973.

Sahara

Courbis 1890; Gabriel 1982; Grove 1980; Leprun 1971; Mainguet 1975; Mainguet et al. 1980; Monod 1950a,b; Nicholson & Flohn 1980; Rognon 1982; Rognon & Williams 1977; Smith, H.T.U. 1963; Van Zinderen Bakker 1980; Williams 1975; Williams & Faure 1980.

Sahara - Central

Clark 1973; De Villiers 1948; Mainguet 1968,1969,1972b.

Sahara - Eastern

El Baz 1980; Haynes 1982; Haynes & Johnson 1984; Moseley 1965; Sandford 1933c.

Sahara - Northern

Alimen 1965; Alimen et al. 1959; Awad 1963; Ballais 1982; Ballais et al. 1979; Besler 1982a; Bourcart & Malycheff 1927; Capot Rey 1945; Cvijanovich 1953; Marinier et al. 1980; Rognon 1979; Rohdenburg & Sabelberg 1980; Schoeller 1945; Williams 1970.

Sahara - Western

Barbey & Carbonnel 1972; Beaudet et al. 1976; Coude-Gaussen, Riser et al. 1982b; Leprun 1971; Michel 1979a,b; Monod 1936,1962; Nahon et al. 1976; Nahon & Demoulin 1970.

Sahara - Southern

Bellair 1949,1953a; Blanck 1968; Clayton 1957,1966; Dumont 1978; Durand 1980; Durand et al. 1984; Durotoye 1983; Grove 1957, 1958,1959; Grove & Pullan 1963; Grove & Warren 1968; Mensching 1979; Michel 1959,1978; Palausi 1955; Prescott & White 1960; Pullan 1969; Sombroek & Zonneveld 1971; Talbot 1980,1984,1985; Talbot & Williams 1978,1979; White 1971.

Sudan

Grove & Warren 1968; Gunn 1982; Vail 1982; Warren 1964,1966,1970; Williams et al. 1982a; Williams Adamson et al. 1982.

SAND SHEETS

Breed et al. 1980; Briem 1977; DeDapper 1979,1981; Edmonds 1942; Eldun 1969; Fryberger et al. 1979; Fuller 1899; Gagliano 1970; Haynes 1982; Kocurek & Nielson 1984,1986.

SAND STORMS

Bagnold 1938; Dubief 1943; Wilshire & Wittschell 1931.

SAND STREAKS

Greeley & Iversen 1986.

SAND TRANSPORT BY THE WIND -

see also **Aeolian Processes**

Adam 1950; ASCE 1965; Ascanio 1972; Bagnold 1935b,1936,1937a,b,1941,1953a, 1956, 1978, 1985; Bardorff-Nielsen et al. 1981,1983,1985; Belly 1964; Berg 1983; Bourcart 1928; Bourcart & Malycheff 1928; Byrne 1968; Carrol 1939; Chepil 1965; Smith 1975; Sorensen 1985; Sumer 1985; Udden 1894; Ward 1977; Wasson & Nanninga 1986; Willetts & Rice 1985b; Wilshire 1980; Wilson 1897; Yuquan & Zheng Zanke 1981; Zingg 1952.

Effect of vegetation

Ash & Wasson 1983; Buckley & Ling 1986.

Regional Patterns

Dubief 1943,1952,1953; El Baz & Wolfe 1982; Fryberger 1978; Gay 1962; Harmse 1982; Lancaster 1985b; McCauley et al. 1982,1984; Mainguet 1976c, 1977,1978, 1983b, 1984a; Mainguet & Cossus 1980; Marrs & Kolm 1982; Misak & El-Shazly 1982; Petitjean 1937a,b; Sarthein & Walger 1974; Sharp 1964; 1980; Sharp & Saunders 1978; Stannard 1959.

Saltation

Anderson 1986; Anderson & Hallet 1986; Gerety 1985; Gerety & Slingerland 1982,1983; Gillette & Stockton 1986; Greeley et al. 1983; Horikawa & Shen 1960; Howard 1977a; Hunt & Nalpanis 1985; Iversen 1983,1985a,b,1986a,b,c,d; Ivseren & White 1982; Jensen & Sorensen 1983,1985; Jensen, Rasmussen et al. 1983; Kadib 1963,1965; Nalpanis 1985; O'Brien & Rindlaub 1936; Otterman & Cornitz 1983; Owen 1964,1980; Rasmussen 1985; Rumpel 1985; Salaun-Penquer et al. 1983; Tsychiya 1970; White 1975,1979,1985; Willetts 1983; Willetts & Rice 1985a,b,1986; Willetts et al. 1982; Williams 1964; Zingg 1953a,b.

Threshold velocity

Bagnold 1935b, 1936, 1937a,b,1941; Belly 1964; Chepil & Woodruff 1963; Felice 1956; Gillette et al. 1980; Greeley & Iversen 1986; Greeley, White et al. 1976; Greeley, Leach et al. 1980; Ivseren 1983,1985a,1986b,c; Iversen, Pollack et al. 1976; Iversen & White 1982; Kawada 1953; Kawamura 1951; Lyles & Krauss 1971; Nickling 1984; Pollack et al. 1976; Pye 1985; Udden 1894; Weinburger & Adlon 1971.

SAND TRAPS

Bagnold 1941; Illenberger & Rust 1986;

Jones & Willets 1979; Leatherman 1976.

SEIF DUNES - see **Linear Dunes**

SHADOW DUNES - see also **Coppice Dunes, Nebkha**

Clemmensen 1986; Glennie & Evamy 1968; Hesp 1981.

SIGMOIDAL DUNES

Holm 1957.

SOUND PRODUCING DUNES

Criswell et al. 1975; Gibson 1946; Goldsmid 1897; Haff 1986; Humphries 1966; Lewis 1936a; Lindsey et al. 1976; Maloney 1982; Trexler & Melhorn 1986; Van Rooyen & Verster 1983; Yarham 1958.

STAR DUNES

Morphology

Alimen et al. 1953; Andrews 1981; Bellair 1951; Berkstresser 1974; Breed & Breed 1978; Breed & Grow 1979; Breed et al. 1984; Choubert 1941; Greeley et al. 1981; MacDonald 1966,1970.

Processes

Lancaster 1986d; Murphy 1973,1975; Murphy & Greeley 1972.

Sediments

Grain size and sorting characteristics
Alimen et al. 1958.

Internal Structures

McKee 1966,1979,1982a.

TERRESTRIAL ANALOGS FOR MARS

El Baz 1978b,1979c,1981; El Baz et al. 1979; El Baz & Maxwell 1982; Greeley 1986a,b; Greeley et al. 1971,1978,1984; Herzig & El Baz 1980; Howard 1977b; Lowman 1971; McCauley & Breed 1980; McCauley et al. 1980; J. McCauley et al. 1980,1981; Mainguet et al. 1981; Manent & El Baz 1980; Murphy & Greeley 1972; Smith, R.S.U. 1980c,1981; Tsoar & Greeley 1980.

TOPOGRAPHICALLY CONTROLLED DUNES

Anders 1974; Arvidson & Mutch 1974; Evans 1962; Howard 1985; Jennings 1967; McCauley & Cotera 1978; McCauley & Breed 1980; McCauley et al. 1980; Manent & El Baz 1980; Smith, H.T.U. 1954; Tsoar 1982a,1983b; Tsoar & Greeley 1980.

TRANSVERSE DUNES

Morphology

Breed & Grow 1979; Cooper 1944; Inman et al. 1966; Lancaster 1982a,1983a; Norris & Norris 1961; Smith, R.S.U. 1978b,d.

Movement

Havholm & Kocurek 1986; Inman et al. 1966; Machenberg 1982; Pickard 1972; Ward & Von Brunn 1985.

Sediments

Vincent 1984.

WIND RIPPLES

Borsy 1973; Bruggmans 1983; Bucher 1919; Cortemiglora 1979; Greeley & Peterfreund 1981; Howard 1977a; Hunter 1977a,b; Kennedy 1964; Mercer & Haque 1973; Muller & Ostaficzuk 1971; Schenk 1982; Seppala & Linde 1978; Sharp 1963; Stone & Summers 1972; Trikanos 1928; Tyler 1979; Walker & Southard 1982; Weir 1962; Werner et al 1986; Wilcoxon 1962.

ZIBAR

Holm 1960; Lancaster 1982b; Nielson & Kocurek 1984,1986; Smith, R.S.U. 1980b, Tsoar 1978a; Warren 1971,1972.

GEOGRAPHICAL INDEX

AFRICA

Grove 1974; Konopliova et al. 1983a,b; Le Houerou 1979; McKee & Breed 1974c; McKee et al. 1973,1975; Monod 1950b; Roederer 1970; Williams 1985.

AFRICA - Northern

Le Houerou 1979

AFRICA - Southern - see also Kalahari, Namib.

Deacon et al. 1984; Eriksson 1978; Flint 1959; Goudie 1969,1970; Goudie & Thomas 1985,1986; King 1939,1978; Lancaster 1979,1983b; Leistner 1979; Passarge 1911; Rogers & Tankard 1974; Rust & Schmidt 1981; Thomas 1984; Van de Merwe 1954a,b; Van Rooyen & Berger 1974;

ALGERIA - see also Sahara - North West

Aime & Penven 1982; Alimen 1953a; Aufrere 1934,1935; Ballais 1982; Ballais et al. 1979; Bellair 1940b; Besler 1984; Capot Rey 1953a; Cortemiglia 1979; Grandet 1955; Matschinski 1952; Trichet 1968; Vossmerbaumer 1974;

ANTARCTICA

Calkin & Rutford 1974; Lindsey 1973; Mather & Miller 1966; Miotke 1981; Rutford & Calkin 1974; Selby et al. 1974.

ARGENTINA

Dangaus 1979; Tricart 1969; Warner & El Baz 1979.

ASIA - Central - see Central Asia

AUSTRALIA - see also Simpson Desert

Ash & Wasson 1983; Beard 1983; Bettenay 1962; Bowden 1983; Bowler 1968, 1971, 1975,1978a,1983; Bowler & Harford 1963; Bowler & Magee 1978; Bowler & Wasson 1984; Brookfield 1970; Brown 1959; Campbell 1968; Di Caporaccio 1936; Churchward 1961,1963; Clapp 1926; Clarke & Priestley 1970; Coaldrake 1954; Conacher 1971; Crow 1975; Daniles 1969; Dare Edwards 1979,1982,1984; Davies 1983; Firman 1982; Glassford & Killighrew 1976; Godfrey 1974; Greenwood 1983; Hesp 1983; Hills 1939a,b,1953; Hyde & Wasson 1983; Jennings 1968,1975; Jutson 1918,1934; King 1956,1960; Krinsley et al.1968; Langford-Smith 1982; Laut et al. 1977;

McKee & Breed 1974c; McKee et al. 1973,1975; Mabbutt 1961,1962,1963, 1967,1968,1969, 1971,1984; Mabbutt & Wooding 1966; Mabbutt et al. 1969; MacArthur 1962; Macumber 1970; Madigan 1930,1936; Mainguet 1978; Mulcahy 1973; Ohmori 1980; Ohmori et al. 1983; Page 1971; Pickard 1972; Price 1964; Rognon & Williams 1977; Sigleo & Calhoun 1982; Simonett 1949,1951; Smith, D.M. et al. 1975; Sprigg 1979,1982; Squires 1963; Stannard 1959; Story 1982; Thompson 1983; Walker 1982; Ward 1977; Wasson 1976,1986; Wasson & Callen 1984; Webb & Wopfner 1961; Wincup 1944; Williams 1973,1985; Williams 1979; Wyrwoll & Milton 1976.

BAHRAIN

Doornkamp et al. 1980.

BOTSWANA - see Kalahari

BRAZIL

Bigarella 1975b,1979; Klammer 1982; Lichte 1980; Martin et al. 1979; Tricart 1961, 1974,1977.

CANADA

Abrahamson 1972; Bayrock & Hughes 1962; David 1971,1977a,b,1979a,b,1981, 1982; Dionne 1978; Fillion & Morisset 1980; Hopkins 1935; Lovell 1967; MacFarlane 1972; McKenna-Neuman & Gilbert 1986; Mott 1969; Nickling 1976; Pissart 1966,1975; Pissart et al. 1977; Pyskin & Davidson-Arnott 1985; Rochette & Cailleux 1971; Row & Abouguenda 1982; Smith, D.G. 1980.

CENTRAL ASIA

Bylov 1981; Federovich 1948b; Hedin 1905; Horner 1936; Jorre 1935; Kes 1973; Lang & Pias 1971; McKee & Breed 1974c; McKee et al. 1973,1975; Mozhaev et al. 1984; Murzayev 1967; Nikiforov 1960; Ovchinnikov 1970; Petrov 1960, 1961, 1962, 1966, 1967; Rachkovskaya & Gunne 1980; Totnicki & Lomborinchen 1978; Selivanov 1961; Ting 1958; Yepifanov 1973.

CHAD

Jackel 1980; Mainguet 1968,1969; Urvoy 1933a,b, 1936; Verstappen 1972a.

CHILE

Harrington 1961; Le Carpentier 1973; Segerstrom 1962,1964; Tricart 1966.

CHINA - see also Central Asia

Academica Sinica 1958, 1962a,b, 1979a,b; Breed et al 1979; Breed & Grow 1979; Buckley et al. 1986; Cailleux 1972; Chao Sung Chiao & Jiaming 1982; Cheng 1963; Guang-Rong et al. 1983; Hedin 1896; Horner 1937; Hsu 1965; Li 1965; Li Hsiao-Fang 1965; Liu 1952; Murzayev 1967; Petrov 1961,1966,1967; Walker 1982; Wang 1960; Xing-Zen & Zhong-Hai 1981; Xu & Xu 1983; Xu et al. 1982; Yang et al. 1982; Yu et al. 1962; Zheng 1981; Zhu Zenda 1979,1980,1984.

DENMARK

Jonassen 1954; Kulhman 1957.

EGYPT

Ashri 1970; Ayyad 1973; Beadnell 1901,1909b; Besler 1986; Breed et al. 1980; Busch & Besler 1982a,b; Butzer 1961; Chemin et al. 1982; Cornish 1900b; El-Baz 1978a,b,1979b,c, 1981; El-Baz et al. 1979; El-Baz and Maxwell 1982; El-Baz and Wolfe 1982; Embabi 1967,1970,1979, 1982; Giengengack & Underwood 1980; Harris 1957; Herzig and El-Baz 1980; Hume 1909,1921,1925; Hurst 1909; Kamel 1953; McCauley et al. 1980; McKay et al.1980; Manent and El-Baz 1980; Misak and El-Shazly 1982; Prestel et al. 1979; Pribly 1970; Said 1962; Sandford 1953; Squyres & Bradley 1964; Striem & El Baz 1982; Yukubov 1968.

EUROPE

Cailleux 1936,1942; Hogbom 1923; Poser 1950; Straw 1963; Zeremski 1972.

EUROPE - CENTRAL

Ban et al. 1964; Borsy 1977; Borsy et al. 1982; Nagy 1974; Pelisek 1963,1972; Pribly 1972; Radulescu 1968; Schmidt 1971.

FINLAND

Aartolahti 1972; Lindroos 1972; Seppala 1969,1971,1972c.

FRANCE

Allier 1966; Cailleux 1941,1951; Mouline 1970.

GERMANY

Gerhardt 1900; Habbe 1974; Hamblock 1958; Hartnack 1925,1931; Jentsch 1900; Kaubler 1974; Keilack 1918; Korn 1919; Kretschmer et al. 1971; Louis 1929; Molner 1961; Musset 1923; Nowel et al. 1972; Pyritz 1972,1974; Priesmier 1970; Reinecke 1903; Roth 1900; Schenze 1968; Solger 1910a,b; Theilen 1978; Wilckens 1926; Wildvang 1936.

GREENLAND

Belknap 1928.

HUNGARY

Borsy 1971,1972,1974.

INDIAN SUB CONTINENT

Abichandi & Roy 1966; Abu Bakr 1963; Ahmed 1969; Ahuja et al. 1980; Allchin & Goudie 1971,1978; Allchin et al. 1978; Biswas 1966; Blanford 1876,1877; Breed et al 1979; Breed & Grow 1979; Chaudhri & Khan 1981; Gardner 1981; Goudie et al. 1973; Goudie & Sperling 1977; Gupta 1979; Gupta & Aggarwal 1980; Hegde 1982; Hegde & Sychanthavong 1982; Higgins et al. 1973,1974; Khanna et al. 1977; Mattev 1982; Misra & Misra 1982; Misra & Verma 1957; Mityk 1982; Mukerji 1961; Oldham 1903; Pandey 1971; Pandey et al. 1971; Saxena & Singh 1977; Seth 1978; Singh 1977a,b, 1985; Singh et al. 1972,1974; Singhvi et al. 1982; Smith & Snead 1961a,b; Snead 1966; Snead & Frishman 1968; Tale 1904; Tamhane 1952; Vats et al. 1976; Verstappen 1970; Wasson et al. 1983.

IRAN

Gabriel 1938,1957; Hallier 1976; Mahmoudi 1977; Selivanou 1982; Tale 1904; Vossmerbaumer 1974.

IRAQ

Al Saadi 1972; Dapples 1941; Dougreimi & Kaul 1972; Jawad & Al-Ani 1983; Khalaf & Al-Hashash 1983; Skocek & Saadallah 1972.

ISRAEL

Ginzbourg 1971; Ravikovitch 1953; Reifenberg 1947; Rim 1948,1950,1958; Rosenan 1954; Striem 1954; Tsoar 1970,1974,1976,1978a,b, 1982a, 1983a, Tsoar & Moller 1986; Tsurieil 1974; Yaalon & Laronne 1971.

JAPAN

Kimura et al. 1970; Matsuda et al. 1980; Niigata Ancient Dune Research Group 1974,1978; Nishizawa 1978; Tada 1975; Tomioka et al. 1974.

KALAHARI DESERT - see also Southern Africa

Baillieul 1972,1973,1975; Binda 1972; Binda & Hildred 1973; Bond 1948,1954,1957; Boocock & Van Straten 1962; Bosazza 1953,1957,1962; Breed et al 1979; Breed & Grow 1979; Buckley 1981a; Cooke 1975,1980,1984; Cooke & Verstappen 1984; DeDapper 1979,1981; Flint & Bond 1968; Grey & Cooke 1977; Grove 1969; Heine 1981,1982; Jones 1982; King 1952; Lancaster 1978,1980c,1981b, 1986a,b; Leistner 1967; Leser 1972; Leser et al. 1976; Lewis 1936a,b; McKenzie 1952; Mabbutt 1955; Mallick et al. 1981; Passarge 1904; Poldervaart 1957; Range 1936; Rust 1984; Sterckx 1974; Thomas 1986a; Van de Merwe 1954a; Van Rooyen & Verster 1983; Van Zinderen Bakker 1980; Verboom 1974; Wayland 1953; Williams 1982; Wright 1978.

KENYA

Hemming & Trapnell 1957.

KUWAIT

Al Saleh and Khalaf 1982; Asem et al. 1982; Khalaf & Gharib 1985.

LIBYA

Angelis 1930; Breed et al 1979; Breed & Grow 1979; di Caporaccio 1936; Capot Rey 1953a; Forth de Lancey 1930; Kadar 1934; Kanter & Schiffers 1973; King 1912; Leone 1953; McKee & Tibbitts 1964; Mitwally 1953; Mizutani & Suwa 1966; Monterin 1935; Moseley 1965; Pesce 1968,1971; Sandford 1933a,c,1935; Shaw 1936; Williams & Hall 1965; Wingate 1934.

MALI

Barth 1982; Blanck 1968; Chudeau 1910,1915a,b,1918; Coude-Gaussen et al. 1982a,b; Tricart et al. 1960.

MARS

Arvidson 1972, 1974; Arvidson & Mutch 1974; Arvidson et al. 1979; Baker 1981; Belcher et al. 1971; Breed 1977; Breed & Ward 1979; Breed et al. 1979; Christensen 1983,1986; Craig et al. 1980; Cutts & Smith 1973; Gad-el-Hak et al. 1975; Greeley

1968, 1979; Greeley & Iversen 1985; Greeley, Iversen et al. 1974; Greeley, White et al. 1976; Greeley, Leach et al. 1980; Greeley, Malone et al. 1980; Greeley et al. 1983; Greeley, Williams et al. 1984; Guinness et al. 1982; Iversen et al. 1973, 1976; Krinsley & Greeley 1986; Krinsley et al. 1979; Leach 1979; McCauley et al. 1981; Macgley 1976; Mason 1973; Megalhaes & Gierasch 1982; Pollack et al. 1976; Sharp & Malin 1984; Smalley & Krinsley 1979; Smith, R.S.U. 1980c; Thomas 1981, 1982; Tsoar et al. 1979; Tsoar & Greeley 1980; Ward & Doyle 1983; Ward et al. 1985; White 1975, 1979; White et al. 1975, 1979; Wolfe 1979.

MAURITANIA

Anon 1950; Aubrinieres 1935; Barbey 1971; Barbey and Carbonnel 1972; Barbey and Coule 1976; Barbey et al. 1974, 1975; Breed et al 1979; Breed & Grow 1979; Carbonnel and Barbey 1972; Chudeau 1909b; Clos-Arceuduc 1965; Daveau 1965; Duchemin 1958; Fryberger 1980; Le Lubre 1980; Michel 1979b; Monod 1928, 1936, 1958, 1961, 1962; Sarnthein & Walger 1974; Tricart 1955; Vincent-Cuaz 1958.

MEXICO

Arvidson & Mutch 1974; Backhaus 1972; Blom 1981; Breed & Grow 1979; Greeley et al. 1984; Heine 1972; Inman et al. 1966; Ives 1959; Lancaster 1986c; Marston & Schmidt 1981; May 1973; Merriam 1969; Schmidt & Marston 1983.

MIDDLE EAST

Beaumont et al. 1976; Bender 1975; Dapples 1941; Gerson 1982; Kaul & Thalen 1979; Krupinski 1980; Petrov 1971; Raikes 1969.

MONGOLIA

Berkey & Morris 1927; Boyshenko 1979; Selivanov 1969; Tada 1963; Trembakowski 1968,1969,1976.

MOROCCO - see also Sahara - North West

Alimen et al. 1959; Awad 1963; Choubert 1941,1945; Clos-Arceuduc 1965; Coude-Gaussen et al. 1982; Martin and Naim 1975.

NAMIB DESERT

Barnard 1973,1975; Beaudet & Michel 1978; Besler 1972a,b, 1975, 1976,1977b,

1979,1980,1981,1983a; Breed et al 1979; Breed & Grow 1979; Bremner 1984; Corvinus 1984; Do Amaral 1982; Fulfaro & Torquato 1975; Gevers 1936; Goudie 1972b; Harmse 1980,1982; Kaiser 1926a,b; Kayser 1973; Lancaster 1980a,b,1981a,c, 1982ac,c,d,1983a,c,1985b,1986c; Lancaster and Ollier 1983; Leser 1971; Logan 1960,1969; McKee 1982a; Marker 1979; Martin 1950; Michel 1978,1979b; Nagtegaal 1973; O'Brien 1972; Ollier 1977; Robinson and Seely 1980; Rogers 1977, 1979; Rust 1979,1980; Rust and Wieneke 1976; Scholz 1972; Seely 1975, 1978; Selby 1976,1977; Shackley 1981, 1982; Spreitzer 1963; Tankard & Rogers 1978; Teller & Lancaster 1986a,b; Trenk 1910; Torquato 1970,1972; Van Zinderen Bakker 1975,1980,1983; Ward 1984; Ward et al 1983; Ward & Von Brunn 1985; Watson & Lemon 1985; Weinecke and Rust 1973; Wilmer 1894; Yaalon and Ward 1982.

NETHERLANDS

Cate 1969; Cleveringa et al. 1977; Crommelin 1964,1965; Koster 1978,1982; Kwakernaak 1977; Maarleveld 1960; Ruegg 1983; Rutten 1954; Vandenbergh & Krook 1981.

NEW ZEALAND

Cockayne 1911; Sevon 1966.

NIGER

Talbot & Williams 1978,1979; Tricart 1959,1965; White 1971.

NIGERIA

Benett 1980; Clayton 1956,1966; Cortemiglia 1979; Durotoye 1983; Falconer 1911; Grove 1957,1958; McTanish 1984; Palausi 1955; Prescott & White 1960; Pullan 1969; Smith & Whalley 1981; Sombroek & Zonneveld 1971.

NORTH AMERICA - see also Canada, U.S.A.

Ahlbrandt 1982; Ahlbrandt et al. 1983; Bender 1982; Cailleux & Wuttke 1964; Carlisle & Marrs 1982; Dregne 1984; Hickok et al. 1982; Larson 1970; McKenzie 1982; MacDougal 1912; MacMahon 1979; Medellin-Leaf 1982; Pool 1913; Smith, 1982; Thorp & Smith 1952; Wells 1983; Wells et al. 1982.

NORWAY

Klemsdal 1969.

OMAN

Breed et al 1979; Breed & Grow 1979; Dutton 1986.

PERU

Amstutz & Chico 1958; Bailey 1899; Barclay 1917; Broggi 1961; Douglass 1909; Dresch 1961; Finkel 1959; Gagliano 1970; Gay 1962; Grolier et al. 1979; Hastenrath 1967,1978; Howard 1985; Kinzl 1958; Lettau & Lettau 1969,1978; Pompeckj 1906; Price 1959; Simons 1956; Simons & Eriksen 1953; Smith 1956a; Tricart & Mainguet 1965.

POLAND

Ambroz 1947; Bogacki 1969; Borowka 1975,1979; Borsy 1965; Chmielewska & Chmielewski 1960; Chmielewska & Wasylikova 1961; Dylik 1969; Dylikowa 1958,1964,1968b,1969a; Florek 1975,1980; Galon 1958,1959,1969a,b; Gawlik 1979; Gozdik 1981; Izmailow 1975,1978,1984; Jahn 1956,1972; Jarnia & Szczypek 1980; Kadar 1938; Kepczynski 1958; Kobendzina 1961,1969; Kobendzina & Kobendza 1958; Kobendza 1970; Kowalowski 1977; Kozarski et al. 1970; Kozarski & Tolbolski 1968; Krafewski 1977,1979; Kristapavichus 1968; Krol 1922; Krygowski 1958; Laskowski 1981; Lencewicz 1922; Lynzewska 1968; Madjanowski 1958; Malakowski 1917; Malakowski & Lencewicz 1953; Manikowska 1977; Maruszczak 1958; Maruszczak & Trembaczowski 1960; Mrozek 1958; Mycielska-Davigallo 1965; Mycielska-Davigallo & Kzywoblocka-Lavrow 1975; Nowaczyk 1967, 1976a,b,1977; Nowicka 1958; Okolowicz 1969; Pernarowski 1958,1960, 1962,1966; Pilarczyk 1958,1976; Polianski 1956; Roszko 1969; Rotnicki & Toboloski 1969; Sawicki 1958; Schoenich 1958; Szczypek 1976,1980; Tobolski 1969; Trembaczowski 1948; Urbaniak 1967,1969b; Urbaniak-Biernacka 1973a,b,1975,1976a,b; Witek 1969,1970; Wojtanowicz 1968,1970,1972.

QATAR

Ashour 1985; Briggs 1983; Besler 1982b; Cavelier 1970; Curtis 1983; Embabi and Ashour 1983; Griffin 1983; Hunting Surveys 1977; Johstone & Wilkinson 1960; Shata 1971.

RUSSIA - see USSR

SAHARA DESERT

Alimen 1982; Aufrere 1928a,b,1929,1930, 1931,1932,1933; Bellair 1938a; Bertin 1964; Bourcart & Malycheff 1926; Breed et al 1979; Breed & Grow 1979; Brera 1979; Capot Rey 1953b,1965,1970; Carnier 1891; Cayeux 1928; Chudeau 1907, 1920; Clos Arceduc 1966,1969b,1970,1971a; Courbis 1890; Dubief 1943,1952,1953; Gabriel 1979,1982; Gautier 1935; Grove 1980; Hachisuka 1932; Humphries 1966; Jordan 1966; Le Lubre 1952; Mainguet 1975,1976b,c, 1977, 1978, 1982a, 1983b, 1984a; Mainguet & Callot 1974; Mainguet & Canon 1976; Mainguet & Cossus 1980; Mainguet et al. 1980; Mainguet & Chemin 1983; Matschinski 1954; Mensching 1976,1979; Monod 1950a; Perret 1961; Petitjean 1937a; Price 1950; Rognon 1982; Rognon & Williams 1977; Rolland 1881; Schiffers 1971a,b,1973a,b; Smith, H.T.U. 1963,1968a,1969,1972; Suter 1973; Van der Merwe 1954a; Van Zinderen Bakker 1980; Verstappen & Van Zuidam 1970; Williams 1975; Williams & Faure 1980; Wilson 1971b.

Central

Birot et al. 1955; Busch & Hagedorn 1980; Chudeau 1907; Clark et al. 1973; Devilliers 1948; Dufour 1936; Dumont 1978; Grove 1960; Hagedorn 1971,1979a,b; Mainguet 1968,1972a; Meckelein 1960; Peel 1979; Warren 1971,1972.

Eastern - see also Egypt, Libya

El Baz 1980; Hagedorn 1968; Haynes 1982; Haynes & Johnson 1984; Said 1983; Simons 1973.

North West - see also Algeria, Mauretania, Morocco

Alimen 1953b,1965; Alimen et al. 1953,1957,1958,1959; Alimen & Fenet 1954; Bellair 1939,1940a, 1945, 1949, 1953a,b; Bellair & Janzein 1952; Besler 1982a; Canon & Galichet 1975; Capot Rey 1941,1943,1945,1947; Chavaillon 1964; Choubert 1941; Cornet 1950; Cvijanovich 1953; Flamand 1899,1919; Grandet 1957; Marie 1983; Marimier et al. 1972; Rognon 1979; Rohdenburg & Sabelberg 1980; Schoeller 1945; Sebenet 1943; Suzuki 1978; Verlaque 1958; Williams 1970; Wilson 1971a.

Western

Alvarez de Benito 1974; Beaudet et al. 1976; Brosset 1939; Monod & Cailleux 1945;

Monod & Toupet 1973; Morrison & Chown 1964.

SAHEL - see also Chad, Mali, Mauretania, Niger, Nigeria, Sudan

Chamard & Courel 1975; Dorize 1974; Dresch & Rougerie 1960; Durand 1980; Durand et al. 1984; Faure 1966; Grove 1959; Grove & Pullan 1963; Grove & Warren 1968; Hirault 1966; Mainguet 1980, 1982d, 1985,1986; Mainguet & Chemin 1980,1981,1983; Mainguet & Vimeaux-Richeux 1981; Mainguet et al. 1980,1983; Michel 1978,1979a; Talbot 1980,1984; Talbot & Williams 1978; Worrall 1974.

SAUDI ARABIA

Albolkhair 1981; Al-Sayari & Zotl 1978; Anton 1983,1984; Anton & Vincent 1986; Anton & Ince 1986; Bagnold 1951; Beydoun 1966; Binda 1983a,b; Breed et al 1979; Breed & Grow 1979; Brown 1960; Bunker 1953; Chapman 1971,1978; Everett et al. 1984; Fryberger et al. 1983,1984; Hidore & Albokhair 1982; Holm 1953,1960; Hotzl et al. 1978; Lamare 1933; Murray 1946; Phillips 1882; Powers 1966; Schulze & Whitney 1986; Thesiger 1949; Vincent 1984,1985; Watson 1985; Whitney 1980,1981,1983; Whitney et al. 1983.

SENEGAL

Leprun 1971; Michel 1959; Sall 1973.

SIMPSON DESERT - see also Australia

Breed et al 1979; Breed & Grow 1979; Buckley 1979a,b,1981a,b,1982a,b; Buckley et al. 1986; Carroll 1944; Crocker 1946; Folk 1969,1970,1976b,1978; Graetz et al. 1982; Mabbutt 1982; Mabbutt & Sullivan 1968; Mabbutt & Wooding 1983; Madigan 1938,1945,1946; Purdie 1984; Twidale 1972a,b,1980,1981a,b; Twidale & Wopfner 1981; Wasson 1983a,b,c; Wopfner & Twidale 1967.

SOMALIA

Hassan 1980.

SOUTH AMERICA

Enock 1908; Khobzi 1981; Picard 1977; Rabasso 1975; Roa Morales 1973; Tricart 1969; Tricart & Alfonsi 1981; Warner & El Baz 1979.

SOUTHERN HEMISPHERE

Bowler 1978; Thomas & Goudie 1984; Williams 1975.

SUDAN

Brien 1977; Chudeau 1907,1909a; Edmonds 1942; El Dun 1969; Felix Henningsen 1984; Gunn 1982; Hagedorn 1974; Sandford 1933b,1935,1953; Vail 1982; Warren 1964,1966,1970; Williams 1968; Williams et al. 1982a,b.

SWEDEN

Agrell 1980,1981; Hansen 1957; Horner 1927; Seppala 1972a,b.

SYRIA

Kosmowska-Suffczynska 1980; Mycielska-Dowgiallo 1980; Perez Oviedo 1985; Wirth 1958.

TUNISIA

Besler 1977a; Bourlaine 1954,1956; Coque 1979; Coque & Jauzein 1975; Grolier & Schultejan 1982; Perthuisot & Jauzein 1975; Trichet 1963.

TURKEY

Erinc 1962.

UNITED STATES OF AMERICA

Ahlbrandt 1973,1974a,b,1975,1979,1982; Ahlbrandt & Andrews 1977,1978; Ahlbrandt et al. 1983; Breed et al 1979; Breed & Grow 1979; Carlisle & Marrs 1982; Cobb 1931; Gaylord 1979,1982; Hickok et al. 1982; Kolm 1973,1974,1982,1985; Kolm & Marrs 1972; Kolm et al. 1975; Lehotsky 1972; McKenzie 1982; Patrone 1970; Smith 1964; Steidtmann 1973,1982; Thorp & Smith 1952; Wells 1977; Wilson 1980.

Eastern States

Chase 1977; Conally et al. 1972; Denny & Owens 1979; Dincen et al. 1978; Donahue 1977; Saucier 1978;

High Plains

Holliday 1984; Huffington & Albritton 1941; Muhs & Madole 1980; Whitefield 1937;

South West

Crosswhite & Crosswhite 1982; Eymann 1953; Fowler & Koch 1982.

Alaska

Black 1951; Carter 1981,1982; Cox & Lawrence 1983; Fernald 1964; Galloway 1982; Galloway et al. 1985; Trainer 1961; Walker 1967.

Arizona

Bienman 1982; Breed & Breed 1978,1979; Breed et al. 1984; Bryan 1922; Chenwoith & Cooley 1960; Elston 1984; Hack 1941; McCauley & Cotera 1978; McCauley et al. 1980; Morrison 1985; Shlemon 1978,1980.

California

Abbott 1980; Anders 1974; Beheiry 1967; Berlin et al. 1985; Blackwelder 1954; Chrisian 1970; Christensen 1970; Clarke 1979; Clements 1977; Cooper 1967; Dean 1978a; Dohrenwend et al. 1984; Dokka 1978; Emery 1954; Evans 1962; Garrett 1966; Greeley & Iversen 1986; Greeley et al. 1986; Havholm & Kocurek 1986; Long & Sharp 1964; McCoy et al. 1967; MacDonald 1966,1970; Merriam 1969; Nielson & Kocurek 1984,1986; Norris 1966; Norris et al. 1979; Norris & Norris 1961; Reed 1930; Rempel 1936; Roth 1960; Rowlands et al. 1982; Russell 1932; Sharp 1964,1966,1978,1979,1980,1982; Sharp & Saunders 1978; Shlemon 1978,1980; Smith, H.T.U. 1967; Smith, R.S.U. 1970,1972, 1977,1978a,b,c,d, 1979,1980a, 1981, 1984; Thompson 1929; Trexler & Melhorn 1986.

Colorado

Andrews 1978,1981; Ahlbrandt & Andrews 1977,1978; Burford 1961; Fryberger et al. 1979; Hutchinson 1979; Johnson 1967,1968,1971; Merk 1960,1973; Muhls 1980; Wegeman 1939; Wiegand 1977.

Idaho

Dort 1959; Trimble & Carr 1976;

Kansas

Mettler 1955; Sidwell & Tanner 1938; Simonett 1960; Smith, H.T.U. 1938,1940a.

Michigan

Evans 1944; Grigal et al. 1976; Kelley 1962; Knapp 1983; Landsberg & Riley 1943; Olson 1958; Synder 1985; Wilson 1980.

Nebraska

Ahlbrandt & Fryberger 1980; Bradbury 1980; Keech & Bentall 1971; Maroney & Swinehart 1978; Seevers et al. 1975; Smith, H.T.U. 1949b,1956b,1965,1968a; Swinehart 1972,1986; Warren 1968,1976b; Wells 1982b.

Nevada

Earl 1981; Maloney 1982; Smith, R.S.U. 1975; Trexler & Melhorn 1986.

New Mexico

Breed & Grow 1979; Bryan & McCann 1943; Evans 1963; Everard 1964; Gile & Grossman 1979; Jones 1959; McKee 1966; McKee & Douglass 1971; McKee & Moiola

1975; Murbarger 1950; Satterwhite and Ehlen 1981; Schenk & Fryberger 1986; Schultz 1980; Simpson 1983; Simpson & Loope 1985.

Oregon

Cooper 1944; Hunter et al. 1983; Lewis 1960; McDowell 1984; Mehringo & Wingand 1986; Wilde 1982.

Texas

Evans & Meade 1945; Gile 1979,1981; Green 1961; Hefley & Sidwell 1945; Holliday 1984; Huffington & Albritton 1941; Huffman & Price 1949; Jones 1959; Machenberg 1982; Madole 1981; Mason & Folk 1958; Price 1933,1958,1963; Reeves 1965; Sidwell & Tanner 1939; Stelting & Van de Werken 1981; Waitt 1969.

Utah

Beckwith 1951; Dean 1978b; Eardley 1962; Jones 1953.

Washington

Patrone 1970.

Wyoming

Ahlbrandt 1973,1974a,b,1975.

USSR

Adylkhodzhaev & Fazilov 1979; Babayev & Frieken 1977; Breed et al 1979; Breed & Grow 1979; Bulgareau 1971; Cailleux 1972; Demin 1973,1974; Federovich 1970a; Gudelis & Vaitoniene 1976; Petrov 1983; Tricart 1953; Trushkovskii 1970

Karakum

Atakhanov 1983; Chredichenko 1980; Doubiansky 1928; Gorelov et al. 1984; Heller 1932; Khodzhayev 1974,1978,1983a,b; Konischev & Lyubimow 1968; Petrushevskii 1937; Rakhmatov & Nazarov 1982a,b; Vaychis 1973; Zhumashov & Arnageldiyev 1978.

Kazakhstan

Bykov 1932; Bylov 1981.

VENUS

Basilevsky et al. 1986; Greeley, Marshall & Leach 1984; Marshall et al. 1984.

BIBLIOGRAPHY

- Aartolahti, T.** 1972. Dyynien Routahalkeamista ja Routahalkeamapolygoneista. (Frost Cracks and Frost-Crack Polygons on Dunes in Finland). *Terra*. 84(3): 124-131.
- Abbott, P.L.** 1980. Provenance of Salton Dunes, Southwest of Salton Sea, California. In Fife, D.L. *et al* (eds). *Geology and Mineral Wealth of the California Desert*. South Coast Geological Society, Santa Ana, California. pp. 409-413.
- Abichandi, C.T. and Roy, B.B.** 1966. Rajasthan Desert, its origin and amelioration. *The Indian Geographical Journal*, Madras 41: 35-43.
- Abrahamsson, K.V.** 1972. Landforms of Southern Saskatchewan. In Paul, A.H., Dale, E.H. and Schlichtmann, H. (eds). *Southern Prairies Field Excursion Background Papers*. Department of Geography, University of Saskatchewan, Regina. pp. 151-195.
- Abolkhair, Y.M.S.** 1981. *Sand Encroachment by Wind in Al-Hasa of Saudi Arabia*. Indiana University, Bloomington. PhD Thesis. 214 p.
- Abu Bakr, M.** 1963. Physiography of the Changai-Kharan Region, West Pakistan. *Pakistan Geographical Review*. 18(2): 1-12.
- Academia Sinica, Sand Control Team.** 1958. A Report on the coordinated research on the desert regions, 1-2. *Scientific Publications Society, Peiping*. 1963 *US Joint Publications Research Service*, Washington D.C. 18, 658 and 18,178.
- Academia Sinia, Sand Control Group.** 1962(a). Sand control research 3. 1963 *U.S. Joint Publications Research Service*, Washington D.C. 19,993.
- Academia Sinica, Sand Control Group.** 1962(b). Sand control research 4. 1963 *U.S. Joint Publications Research Service*, Washington D.C. 20,938.
- Academia Sinica, Lanzhou Institute of Desert Research.** 1979(a). China's deserts and the prevention of desertification.
- Academia Sinica, Lanzhou Institute of Desert Research.** 1979(b). The preventive measures of shifting sand at the southeastern edge of the Tengger Desert. In *China's deserts and the prevention of desertification*: 45-54.
- Adam, K.D.** 1950. Über Windtransport von Kies in Wüstengebieten I. Beobachtungen in Nordost-Afrika. *N.Jb.Geol.u. Paläontol.*: 289-294.
- Adylkhodzhaev, A.I. and Fazilov, T.I.** 1979. Investigation of Barkhan Sands to be Fixed by Astringents (in Russian). *Problemy Osvoeniya Pustyn'*, *Akademiya Nauk Turkmenkoi SSR*. 1: 80-84.
- Agrell, H.** 1980. Inlandsdyner Pad Kristianstadsslaetten, Oestra Skaane. (Inland Dunes on the Kristianstad Plain, Eastern Skane). *Sv. Geogr. Aarsb.* 56: 23.
- Agrell, H.** 1981. Subrecent Inland Dunes on the Kristianstad Plain, Southern Sweden. *Striae*. 14: 48-51.
- Ahlbrandt, T.S.** 1973. Sand Dunes, Geomorphology and Geology, Killpecker Creek Area, Northern Sweetwater County, Wyoming. University of Wyoming. PhD Thesis. 174 p.
- Ahlbrandt, T.S.** 1974(a). Dune Stratigraphy, Archeology and the Chronology of the Killpecker Dune Field. In Wilson, M. (ed). *Applied Geology and Archeology: The Holocene History of Wyoming*. *Wyoming Geological Survey Report*. 10: 51-60.
- Ahlbrandt, T.S.** 1974(b). The Source of Sand for the Killpecker Sand Dune Field, Southwestern Wyoming. *Sedimentary Geology*. 11: 39-57.
- Ahlbrandt, T.S.** 1975. Comparison of Textures and Structures to Distinguish Eolian Environments, Killpecker Dune Field, Wyoming. *Mountain Geologist*. 12: 61-73.
- Ahlbrandt, T.S.** 1979. Textural Parameters of Eolian Deposits. In McKee, E.D. (ed). *A Study of Global Sand Seas*. United States Geological Survey, Professional Paper 1052: 21-51.
- Ahlbrandt, T.S.** 1982. Chronology and Sedimentology of Some North American Cold Climate Dune Fields (abs). *International Association of Sedimentologists, Eleventh International Congress*. Hamilton, Ontario. p 67.
- Ahlbrandt, T.S. and Andrews, S.** 1977. Preliminary Geologic Studies of Cold Climate Dunes in North Park, Jackson County, Colorado. *United States Geological Survey, Open-File Report* 77-145. 16 p.
- Ahlbrandt, T.S. and Andrews, S.** 1978. Distinctive Sedimentary Features of Cold Climate Eolian Deposits, North Park, Colorado. *Palaeogeography, Palaeoclimatology, Palaeoecology*. 25: 327-351.

- Ahlbrandt, T.S., Andrews, S. and Gwynne, D.T. 1978. Bioturbation in Eolian Deposits. *Journal of Sedimentary Petrology*. 48: 839-848.
- Ahlbrandt, T.S. and Fryberger, S.G. 1980. Eolian Deposits in the Nebraska Sand Hills. *United States Geological Survey, Professional Paper* 1120-A. 24 p.
- Ahlbrandt, T.S. and Fryberger, S.G. 1981. Sedimentary Features and Significance of Interdune Deposits. *Society of Economic Palaeontologists and Mineralogists, Special Publication*. 31: 293-314.
- Ahlbrandt, T.S. and Fryberger, S.G. 1982. Eolian Deposits. In Scholle, P.A. and Spearing, D. (eds). *Sandstone Depositional Environments*. American Association of Petroleum Geologists, Memoirs. 31: 11-48.
- Ahlbrandt, T.S., Swinehart, J.B. and Maroney, D.G. 1983. The Dynamic Holocene Dune Fields of the Great Plains and Rocky Mountain Basins, U.S.A. In Brookfield, M.E. and Ahlbrandt, T.S. (eds). *Eolian Sediments and Processes*. Developments in Sedimentology 38. Amsterdam: Elsevier. pp. 379-406.
- Ahmed, E. 1969. Origin and geomorphology of the Thar desert. *Annals of the Arid Zone* 8: 171-180.
- Ahuja, R.L., Khanna, S.S. and Garalupuri, V.N. 1980. Evolution and Distribution of Aeolian Cover in Haryana. *Annals of Arid Zone*. 19(3): 175-182.
- Aime, S. and Penven, M.J. 1982. Le Complexe Dunaire du Cap Falcon, Oran; Etude Morphodynamique Appliquee et Perspectives d'Amenagement. *Mediterranee*. 45(2): 3-13.
- Aizenshtat, B.A. 1960. The Heat Balance and Microclimate of Certain Landscapes in a Sandy Desert. *United States Department of Commerce, ESSA, Washington*. (Translated from *Gidrometeoizdat*, 1958).
- Alimen, H. 1953(a). Caracteres Granulometriques d'un Depot Effectue par le Vent de Sable a Beni-Abbes (Algerie). *Societe Geologique de France, Compte Rendu*. 11-12: 234-237.
- Alimen, H. 1953(b). Variations Granulometriques et Morphoscopiques du Sable le Long de Profils Dunaires au Sahara Occidental. *Centre National de Recherches Scientifiques, Paris, Colloques Internationaux*. 35: 219-235.
- Alimen, H. 1965. The Quaternary Era in the Northwest Sahara. In Wright, H.E., Jr. and Fray, D.G. (eds). *International Studies on the Quaternary*. Geological Society of America, Special Papers. 84: 273-291.
- Alimen, H. 1982. Le Sahara: Grande Zone Desertique Nord - Africaine. *Striae*. 17: 35-51.
- Alimen, H. et al. 1953. Les Chaines d'Ougarta et la Saoura. *International Geological Congress, 19th, Alger, Monographie Reguliere, Serie 1*. 15: 93-106.
- Alimen, H. et al. 1957. *Sables Quaternaire du Sahara Nord-Occidental (Saoura-Ougarta)*. Service de la Carte Geologique de l'Algerie, Bulletin 15. 207 p. (Critique in *Revue de Geomorphologie Dynamique*. 1958, pp. 180-182)
- Alimen, H. and Fenet, D. 1954. Granulometrie de Sables d'Erg aux Environs de la Saoura (Sahara Occidental). *Societe Geologique de France, Compte Rendu*. 9-10: 183-185.
- Alimen, H. and Mercier, M. 1948. Topographie Dunaire au Sommet de l'Auvernien dans le Tradenois. *Academie des Sciences, Compte Rendu*. 226(18): 2083-2085.
- Alimen, H., Buron, M. and Chavaillon, J. 1958. Caracteres Granulometriques de Quelques Dunes d'Ergs du Sahara Nord-Occidental. *Academie des Sciences, Paris, Compte Rendu*. 247: 1758-1761.
- Alimen, H., Chavaillon, J. and Margat, J. 1959. Contribution a la Chronologie Prehistorique Africaine. Essai de Correlation entre les Depots Quaternaires du Bassin Guir-Saoura (Sahara) et du Bassin du Tafilaït (Maroc). *Congres Prehistorique Francais, Monaco*. 20 p.
- Allchin, B. and Goudie, A.S. 1971. Dunes, Aridity and Early Man in Gujarat, West India. *Man*. 6(2): 248-265.
- Allchin, B. and Goudie, A.S. 1978. Climatic Changes in the Indian Desert and Northwest India during the Late Pleistocene and Early Holocene. In Brice, W.C. (ed). *The Environmental History of the Near and Middle East Since the Last Ice Age*. London: Academic Press. pp. 307-318.
- Allchin, B., Goudie, A.S. and Hegde, K.T.M. 1978. *The Prehistory and Paleogeography of the Great Indian Desert*. London: Academic Press.
- Allen, J.R.L. 1968a. *Current ripples, their relation to patterns of water and sediment motion*. Amsterdam: Elsevier. 433 p.

- Allen, J.R.L. 1968b. The Nature and Origins of Bedform Hierarchies. *Sedimentology*. 10: 161-182.
- Allen, J.R.L. 1970. *Physical processes of sedimentation. An Introduction*. London: Allen and Unwin. 248 p.
- Allen, J.R.L. 1984. *Sedimentary Structures. Their character and physical basis*. Amsterdam: Elsevier. 663p.
- Allen, J.R.L. 1986. *Principles of Physical Sedimentology*. London: Allen and Unwin. 272p.
- Allier, C. 1966. Formation et Evolution d'une Dune Continentale au Champ Miette (Foret de Fontainebleu). *Revue de Geomorphologie Dynamique*. 16: 101-113.
- Al-Saadi, S.N. 1972. Geomorphology, Sedimentology and Origin of Bayi Dune Field (abs). *Geological Society of Iraq, Journal*. 5: 179.
- Al Saleh, S. and Khalaf, F.I. 1982. Surface Textures of Quartz Grains from Various Recent Sedimentary Environments in Kuwait. *Journal of Sedimentary Petrology*. 52: 215-226.
- Al-Sayari, S.S. and Zotl, J.G. 1978. *Quaternary Period in Saudi Arabia Vol. 1; Sedimentological, Hydro-Geological Hydrochemical, Geomorphological and Climatological Investigations in Central and Eastern Saudi Arabia*. New York: Springer-Verlag. 334 p.
- Alvarez de Benito, G.A. 1974. Sand dune stabilization at El Aaiun, West Sahara. *International Journal of Biometeorology*, 18: 142-144.
- Ambroz, V. 1947. Sprase Pahorkatin. *Sbornik Statniho Geologickeho Ustavu Ceskoslovenske Republiky XIV*.
- American Society of Civil Engineers, Hydraulics Division, Committee on Sedimentation, Task Committee on Preparation of Sedimentation Manual. 1965. Sediment Transportation Mechanics: Wind Erosion and Transportation; Progress Report. *Journal 91, HY*. 2(1): 267-287.
- Amiran, D.H.K. and Wilson, A.W. (eds) 1973. *Coastal deserts. Their natural and human environments*. Tucson, Arizona: University of Arizona Press.
- Amstutz, G.C. and Chico, R. 1958. Sand Size Fractions of Southern Peruvian Barchans and a Brief Review of the Genetic Grain Shape Function. *Vereinigung Schweizerischen Petroleum Geologen und Ingenieure, Bulletin*. 24: 47-52.
- Anders, F.J. 1974. *Sand Deposits as Related to Interactions of Wind and Topography in the Mojave Desert near Barstow, California*. University of Virginia, Charlottesville, MS Thesis.
- Anderson, R.S. 1986. Erosion profiles due to particles entrained by wind: application of an eolian sediment transport model. *Geological Society of America, Bulletin*. 97: 1270-1278.
- Anderson, R.S. and Hallet, B. 1986. Sediment transport by wind: toward a general model. *Geological Society of America, Bulletin*. 97: 523-535.
- Andreichuk, A.L. 1982. A Case Study of the Sand Deflation Intensity (in Russian). *Problemy Osvoeniya Pustyn', Akademiya Nauk Turkmenskoi SSR*. 5: 69-71.
- Andreichuk, A.L. 1985. The rate of movement of sand waves. *Problems of desert development* : 73-76.
- Andrews, S. 1978. Geometry and Dynamics of the Great Sand Dunes, San Luis Valley, Colorado (abs). *Geological Society of America, Abstracts Program*. 10(5): 209.
- Andrews, S. 1981. Sedimentology of the Great Sand Dunes, Colorado. *Society of Economic Paleontologists and Mineralogists, Special Publication*. 31: 279-291.
- Angelis, M. De. 193(?) Osservazioni sur Alcune Sabbie della Libia. *Missione Scientifica Della R. Accademia d'Italia a Cufra*. 3: 49-.
- Anonymous. 1950. La Fixation des Dunes en Mauritanie. *Institut Colonial, Marseilles, Cahiers Coloniaux*. 9: 384-385.
- Anonymous. 1983. L'histoire extraordinaire des dunes éoliennes. *Impact Science et Société* 3-4: 389-406.
- Anton, D. 1983. Modern Eolian Deposits of the Eastern Province of Saudi Arabia. In Brookfield, M.E. and Ahlbrandt, T.S. (eds). *Eolian Sediments and Processes*. Developments in Sedimentology 38. Amsterdam: Elsevier. pp. 365-378.
- Anton, D. 1984. Aspects of Geomorphological Evolution; Paleosols and Dunes in Saudi Arabia. In Jado, A.R. et al (eds). *Quaternary in Saudi Arabia Vol. 2; Sedimentological, Hydro-Geological, Hydrochemical, Geomorphological, Geochronological and Climatological Investigations in Western Saudi Arabia*. Vienna: Springer-Verlag. pp. 275-296.

- Anton, D. and Vincent, P. 1986. Parabolic dunes of the Jafurah Desert, Eastern Province, Saudi Arabia. *Journal of Arid Environments*, 11: 187-198.
- Anton, D. and Ince, F. 1986. A study of sand colour and maturity in Saudi Arabia. *Zeitschrift fur Geomorphologie*, 30: 339-356.
- Aripov, E.A. and Nuryev, B.N. 1982. Classification of the Chemical Substances used for Sand Dune Fixation (in Russian). *Problemy Osvoeniya Pustyn' Akademiyi Nauk, Turkmeniskoi, SSR*. 6: 65-66.
- Arvidson, R.E. 1972. Aeolian Processes on Mars, Erosive Velocities, Settling Velocities, and Yellow Clouds. *Geological Society of America, Bulletin*. 83: 1503-1508.
- Arvidson, R.E. 1974. Wind Blown Streaks, Splotches and Associated Craters on Mars, Statistical Analysis of Mariner 9 Photographs. *Icarus*. 21: 12-27.
- Arvidson, R.E., Guinness, E. and Lee, S. 1979. Differential Aeolian Redistribution Rates on Mars. *Nature*. 278: 533-535.
- Arvidson, R.E. and Mutch, T.A. 1974. Sedimentary Patterns in and Around Craters from the Pinnacate Volcanic Field, Sonora, Mexico; Some Comparisons with Mars. *Geological Society of America, Bulletin*. 85: 99-104.
- Ascanio, M.F. 1972. Instability of flat sand surfaces under wind action. *Laboratoire de Hydraulique, Universite Central de Venezuela, Bulletin* 3: 24-39.
- Asem, A., Khalaf, F., Altasi, S. and Palov, F. 1982. Classification of surface sediments in Kuwait using Landsat data. *Proceedings International Symposium on Remote Sensing of Environment. 1st Thematic Conference Remote Sensing of Arid and Semi Arid Lands*. Environmental Research Institute, Michigan, Ann Arbor. 1057-1064.
- Ash, J.E. and Wasson, R.J. 1983. Vegetation and Sand Mobility in the Australian Desert Dunefield. *Zeitschrift fur Geomorphologie, Supplement*. 45: 7-25.
- Ashburn, E.V. and Weldon, R.G. 1956. Spectral Diffuse Reflectance of Desert Surfaces. *Journal of the Optical Society of America*. 46(8): 585.
- Ashour, M.M. 1985. Textural Parameters of Qatar Dune Sands. *Journal of Arid Environments*. 8: 1-14.
- Ashri, A.H. 1970. The Movement of Sand Dunes at Kharga Oasis (abs). *Papers Presented at the Eighth Annual Meeting of the Geological Society*. Cairo, Egypt. p. 21.
- Atakhanov, O. 1983. Morphological Structure Peculiarities of Large Sandy Ridges Landscape, Eastern Karakum (in Russian). *Problemy Osvoeniya Pustyn', Akademiyi Nauk Turkmeniskoi SSR*. 5: 30-39.
- Aubert, H.J. 1978. Eine Wueste Ganz aus Gips. (A Desert Completely of Gypsum). *Kosmos*. 74(12): 890-897.
- Aubrinieres, L. 1935. Notes sur le Sahel Mauritanien. *Comite d'Etudes Historiques et Scientifiques de l'Afrique Occidentale Francaise, Bulletin*. 28(4): 381-392.
- Aufrere, L. 1928(a). *Les Dunes dans les Deserts*. Handbook for the International Geographical Congress, Cambridge. 51 p.
- Aufrere, L. 1928(b). L'Orientations des Dunes et la Direction des Vents. *Academie des Sciences, Comptes Rendus*. 187: 833-835.
- Aufrere, L. 1929. Le Probleme Geologique des Dunes dans les Deserts Chauds du Nord de l'Ancien Monde (Sahara, Arabie, Inde). *Association Francaise pour l'Avancement des Science, 53 Session, Le Havre, Compte Rendu*. pp. 393-397.
- Aufrere, L. 1930a. Les Dunes et les Vents du Sahara. *Association Francaise pour l'Avancement des Sciences, 54 Session, Alger, Compte Rendu*. pp. 144-148.
- Aufrere, L. 1930b. L'Orientation des Dunes Continentales. *International Geographical Congress, 12th, Cambridge, Report of Proceedings*. pp. 220-231.
- Aufrere, L. 1931. Le Cycle Morphologique des Dunes. *Annales de Geographie*. 40: 362-385.
- Aufrere, L. 1932. Morphologie Dunaire et Meteorologie Saharienne. *Association de Geographes Francais, Bulletin*. 56: 34-48.
- Aufrere, L. 1933. Les Dunes Continentales, leurs Rapports avec le Sous-Sol, le Passe Geologique Recent et le Climat Actuel. *International Geographical Congress, 13th, Paris, Compte Rendu*. 2(1): 699-711.
- Aufrere, L. 1934. Les Dunes du Sahara Algerien, Notes de Morphologie Dynamique. *Association de Geographes Francais, Bulletin*. 83: 130-142.
- Aufrere, L. 1935. Essai sur les Dunes du Sahara Algerien. *Geografiska Annaler*. 17: 481-500.

- Awad M. 1963. Some Aspects of the Geomorphology of Morocco Related to the Quaternary Climate. *Geographical Journal*. 129(2): 129-139.
- Ayyad, M.A. 1973. Vegetation and environment of the western mediterranean coastal land of Egypt, I, The habitat of sand dunes. *Journal of Ecology*, 61: 509-523.
- Baba, J. and Komar, P.D. 1981. Measurements and Analysis of Settling Velocities of Natural Quartz Sand Grains. *Journal of Sedimentary Petrology*. 51: 631-640.
- Babayev, A.G. 1978. Izucheniye i Osvoyeniye Pustyn': Rezult'aty i Perspektivy Issledovaniy. (Studies and Reclamation of Deserts, Results and Future Investigations). *Akademiya Nauk SSR, Vestnik, Moskow*.
- Babayev, A.G. and Chrednichenko, V.P. 1972. Methods for determining the degree of deflation in shifting sands. *Problemy Osvoeiya Pustyn'* 5: 41-45.
- Babayev, A.G. and Frieken, Z.G. 1977. Pustyni SSSR, Vchera, Segodnya, Zavtra. (Deserts of the USSR, Yesterday, Today and Tomorrow). *Izd. Mysl Moskow USSR*. 350 p.
- Backhaus, E. 1972. Rotärbung und Sedimentation in der Sonora-Wüste (Mexico, USA) im genetischen Vergleich zum süddeutschen oberen Buntsandstein. *Nachrichten der Deutschen Geologischen Gesellschaft* 5: 19.
- Bagnold, R.A. 1931. Journeys in the Libyan Desert. *Geographical Journal*. 78: 13-39, 524-535.
- Bagnold, R.A. 1933(a). A Further Journey in the Libyan Desert. *Geographical Journal*. 82: 103-129, 211-235.
- Bagnold, R.A. 1933(b). Grain Structure of Sand Dunes in Relation to Water Content. *Nature*. 142: 403-404.
- Bagnold, R.A. 1935(a). *Libyan Sands*. London: Travel Book Club. 351 p
- Bagnold, R.A. 1935(b). The Movement of Desert Sand. *Geographical Journal*. 85: 343-
- Bagnold, R.A. 1936. The Movement of Desert Sand. *Royal Society, London. Proceedings, Series A*. pp. 157-194.
- Bagnold, R.A. 1937(a). The Transport of Sand by Wind. *Royal Society, London. Proceedings, Series A*. 163: 250-264.
- Bagnold, R.A. 1937(b). The Transport of Sand by Wind. *Geographical Journal*. 89: 409-438.
- Bagnold, R.A. 1938. The Measurement of Sand Storms. *Royal Society of London, Proceedings, Series A*. 167: 282-291.
- Bagnold, R.A. 1941. *The Physics of Blown Sand and Desert Dunes*. London: Methuen. (reprinted 1954, 1960).
- Bagnold, R.A. 1951. The Sand Formations of South Arabia. *Geographical Journal*. 117: 78-86.
- Bagnold, R.A. 1953(a). The Surface Movement of Blown Sand in Relation to Meteorology. In *Desert Research, Proceedings, International Symposium, Jerusalem*. Research Council of Israel, Special Publication. 2: 89-93.
- Bagnold, R.A. 1953(b). Forme des Dunes de Sable et Regime des Vents. In *Actions Eoliennes*. Centre National de Recherches Scientifiques, Paris, Colloques Internationaux. 35: 23-32.
- Bagnold, R.A. 1954. Physical Aspects of Dry Deserts. In Cloudsley-Thompson, J.L. (ed). *Biology of Deserts*. pp. 7-12.
- Bagnold, R.A. 1956. The Flow of Cohesionless Grains in Fluids. *Proceedings of the Royal Society*. 249: 235-297.
- Bagnold, R.A. 1978. Wind-Sand Interaction (abs). In Greeley, R. and Black, D. (eds). *Abstracts for the Planetary Geology Field Conference on Aeolian Processes*. NASA TM-78455: 8.
- Bagnold, R.A. 1985. Transport of granular solids by winds and water compared. In *Proceedings of International Workshop on the Physics of Blown Sand, Aarhus*. Department of Theoretical Statistics, University of Aarhus, Memoirs 8.
- Bagnold, R.A. and Barndorff-Nielsen, O. 1980. The Pattern of Natural Size Distributions. *Sedimentology*. 27: 199-207.
- Bailey, S.I. 1899. The Sand-Dunes of the Desert of Islay, Peru. *Harvard University Astronomical Observatory, Annals*. 39(2): 287-292.
- Baillieul, T. 1972. Analysis of Some Sands Overlying the Morapule Coalfield. Unpublished Report, *Geological Survey of Botswana*.
- Baillieul, T. 1973. Reconnaissance Sand Survey - Western Ngamiland. Unpublished Report, *Geological Survey of Botswana*.
- Baillieul, T. 1975. A Reconnaissance Survey of the Cover Sands in the Republic of Botswana. *Journal of Sedimentary Petrology*. 45(2): 494-503.

- Baker, H.W. Jr. 1976. Environmental Sensitivity of Submicroscopic Surface Textures on Quartz Sand Grains - a Statistical Evaluation. *Journal of Sedimentary Petrology*. 46(4): 871-880.
- Baker, V.R. 1981. The Geomorphology of Mars. *Progress in Physical Geography*. 5(4): 473-513.
- Ballais, J.L. 1982. Les Criteres de Reconnaissance des Phases Arides Quarternaires du Maghreb; l'Exemple des Aures, Algerie. *Bulletin de l'Association de Geographies Francais*. 483-484: 45-47.
- Ballais, J.L, Marre, A. and Rognon, P. 1979. Periodes Arides du Quaternaire Recent et Deplacement des Sables Eoliens dans les Zibans, Algerie. *Revue de Geographie Physique et Geologie Dynamique*. 21: 97-108.
- Ban, A. Braescu, E. and Gafenou, Z. 1964. The Importance of Fluvial and Aeolian Processes in Forming Relief in the Danube Valley (abs). *International Geographical Congress, 20th, London, Abstracts of Papers*. p. 86.
- Barbey, C. 1971. Observations Geomorphologiques en Mauritanie Occidentale. *Institut Fondamental d'Afrique Noire, Serie A. Sciences Naturelles, Bulletin*. 33(2): 267-276.
- Barbey, C. and Carbonnel, J.P. 1972. Le Ravinement Dunaire en Milieu Sahelien. Observations lors de Pluies Recentes dans la Region de Nouakchott, Mauritanie. *Comptes Rendus des Seances de l'Academie des Sciences, Serie D*. 274: 2933-2935.
- Barbey, C. and Coule, A. 1976. Croutes a Cyanophycees sur les Dunes du Sahel Mauritanien. *Institut Fondamental d'Afrique Noire, Serie A. Sciences Naturelles, Bulletin*. 38: 732-736.
- Barbey, C., Carbonnel, J.P., Le Ribault, L. and Tourenq, J. 1974. Mise en Evidence par Exoscopie des Quartz de Plusieurs Episodes Eoliens au Cours de Quaternaire Mauritanien. *Comptes Rendus des Seances de l'Academie des Sciences D*. 278(9): 1163-1166.
- Barbey, C., Carbonnel, J.P., Duplaix, S., Le Ribault, L. and Tourenq, J. 1975. Etude Sedimentologique de Formations Dunaires en Mauritanie Occidentale. *Bulletin, Institut Fondamental d'Afrique Noire, Serie A*. 37(2): 255-281.
- Bartkowski, T. 1973. Relief Lineare de Rempart Metacarpatique en Tant que Temoin des Cycle Eoliens dans l'Evolution du Relief. *Biuletyn Peryglacjalny*. 23: 167-200.
- Barclay, W.S. 1917. Sand Dunes in the Peruvian Desert. *Geographical Journal*. 49: 53-56.
- Barnard, W.S. 1973. Duin Formasies in die Sentrale Namib. *Tegnikon*. 5: 2-13.
- Barnard, W.S. 1975. Geomorphologiese Proesse en die Mens; die Gebval van die Kuisebdelta, Suid West Afrika. *Acta Geographica*. 2: 20-43.
- Barndorff-Nielsen, O. and Darroch, J.N. 1981. A Stochastic Model for Sand Sorting in a Wind Tunnel. *Advances in Applied Probability*. 13(2): 282-297.
- Barndorff-Nielsen, O., Ledet, J.J. and Sorensen, M. 1981. *The Relation Between Size and Distance Travelled for Wind-Driven Sand Grains - Results and Discussion of a Pilot Experiment Using Coloured Sand*. Department of Theoretical Statistics, University of Aarhus, Research Report. 74.
- Barndorff-Nielsen, O., Dalsgaard, K., Halgreen, C., Kuhlman, H., Moller, J.T. and Schon, G. 1982. Variation in Particle Size Over a Small Dune. *Sedimentology*. 29: 53-65.
- Barndorff-Nielsen, O., Bloesild, P., Jensen, J.L. and Sorensen, M. 1983. The fascination of sand. *Department of Theoretical Statistics, University of Aarhus, Research Report* 93.
- Barndorff-Nielsen, O., Jensen, J.L. and Sorensen, M. 1983. On the Relation Between Size and Distance Travelled for Wind-Driven Sand Grains - Results and Discussion of a Pilot Experiment Using Coloured Sand. In Sumer, B.M. and Muller, A. (eds). *Mechanics of Sediment Transport*. Proceedings Euromech 156: 55-64.
- Barndorff-Nielsen, O. and Christiansen, C. 1985. The hyperbolic shape triangle and classification of sand sediments. In *Proceedings of International Workshop on Physics of Blown Sand, Aarhus*. Department of Theoretical Statistics, University of Aarhus, Memoirs 8.

- Barndorff-Nielsen, O., Jensen, J.L., Nielsen, H.L., Sasmussen, K.R. and Sorensen, M. 1985. Wind tunnel tracer studies of grain progress. In *Proceedings of International Workshop on Physics of Blown Sand*. Department of Theoretical Statistics, University of Aarhus, Memoirs 8.
- Barret, W.H. 1930. The Grading of Dune Sand by Wind. *Geological Magazine*. 67: 159-162.
- Barth, H.K. 1982. Accelerated Erosion of Fossil Dunes in the Gourma Region, Mali, as a Manifestation of Desertification. *Catena, Supplement*. 1: 211-219.
- Bashin, O.V. 1899. Die Entstehung Wellenähnlicher Oberflochenformen. *Gesellschaft für Erdkunde zu Berlin, Zeitschrift*, III. 34: 408-424.
- Bashin, O.V. 1900. Die Entstehung der Dunen. *Centralblatt der Bauverwaltung*, XX, Jahrbuch. 38: 251-232.
- Bashin, O.V. 1903. Dunenstudien. *Gesellschaft für Erdkunde zu Berlin, Zeitschrift*. 6: 422-430. Abstract in *Geographical Journal*. 23:588 (1903).
- Basilevsky, A.T. et al 1986. The surface of Venus as revealed by the Venera landings, Part II. *Geological Society of America Bulletin*. 96: 137-144.
- Bayrock, L.A. and Hughes, G.M. 1962. Surficial Geology of the Edmonton District. *Research Council of Alberta, Preliminary Report*. 23: 181-185.
- Bayard, Lieut. 1947. Aspects Principaux et Consistence des Dunes (Mauritanie). *Institut Français d'Afrique Noire, Bulletin* 9.
- Bayramov, S.B. 1971. Izucheniye Deflyatsionnykh Protessov v Peshanykh Pustynnyakh. (Study of Deflation in Sand Deserts). *Geomorfologiya*. 2: 45-49.
- Beadnell, H.J.L. 1901. Dakhla Oasis, its Topography and Geology. Fara'fra Oasis, its Topography and Geology. *The Topography and Geology of the Faiyum Province*. Cairo.
- Beadnell, H.J.L. 1909(a). Desert Sand Dunes. *Cairo Scientific Journal*. 3(34): 171-172.
- Beadnell, H.J.L. 1909(b). *An Egyptian Oasis*. London: John Murray.
- Beadnell, H.J.L. 1910. The Sand Dunes of the Libyan Desert. *Geographical Journal*. 35: 379-395.
- Beadnell, H.J.L. 1934. Libyan Desert Dunes. *Geographical Journal*. 84: 337-340.
- Beal, M.A. and Shepard, F.P. 1950. A Use of Roundness for Determining Depositional Environments. *Journal of Sedimentary Petrology*. 26: 49-60.
- Beard, J.S. 1983. Late Pleistocene Aridity and Aeolian Landforms in Western Australia. In Barker, W.R. et al (eds). *Evolution of the Flora and Fauna of Arid Australia*. Frewville, Australia: Peacock Publishers. pp. 101-106.
- Beaudet, G. and Michel, P. 1978. *Recherches Geomorphologiques en Namibie Central*. Recherches Geographiques a Strasbourg, Edition Special. 139 p.
- Beaudet, G., Michel, P., Nahon, D., Oliva, P., Riser, J. and Ruellan, A. 1976. Formes, Formations Superficielles et Variations Climatiques Recentes du Sahara Occidental. *Revue de Geographie Physique et Geologie Dynamique*. 18: 157-174.
- Beaumont, P., Blake, G.H. and Wagstaff, J.M. 1976. *The Middle East; a Geographical Study*. London: John Wiley and Sons, 572 p.
- Beckwith, F. 1951. Fighting Moving Sand Dunes in Utah. *Rocks and Minerals*. 26: 592-594.
- Beheiry, S.A. 1967. Sandforms in the Coachella Valley, southern California. *Annals Association of American Geographers* 57: 25-48.
- Belcher, D., Veverka, J. and Sagan, C. 1971. Mariner Photography of Mars and Aerial Photography of Earth: Some Analogies. *Icarus*. 15: 241-252.
- Bel'gibayev, M. Ye. 1975. Eolovyy Akkumlyativnyy Mikrorel'yef Deflirovannyih Pochv. (Eolian Accumulation Microrelief of Deflation Soils). *Geomorfologiya*. 1: 56-61.
- Belknap, R.L. 1928. Some Greenland Sand Dunes. *Papers of the Michigan Academy of Science, Arts and Letters*. 10: 198.
- Bellair, P. 1938(a). Observations sur les Dunes Sahariennes. *Societe Geologique de France, Comptes Rendus*. 17: 331-332.
- Bellair, P. 1938(b). Les Elements Lourds dans les Sables Desertiques. *Academie des Sciences, Paris, Comptes Rendus*. 207: 1054-1055.
- Bellair, P. 1939. Sur la Composition Mineralogique des Sables du Grand Erg Occidental. *Societe Geologique de France, Comptes Rendus*. 14: 212-213.
- Bellair, P. 1940(a). Les Sables de la Dorsale Saharienne et du Bassin de l'Oued Rhir. *Service de la Carte Geologique de l'Algerie, Bulletin, Serie 5*(5).
- Bellair, P. 1940(b). Les Sables du Sour (Algerie) (abs). *Societe Geologique de France, Bulletin, Serie 5, Vol. 10. Compte Rendu Sommaire*. 7: 75.

- Bellair, P. 1941. Etude Granulometrique de Quelques Formations Arenacees du Gourara et la Saoura. *Societe d'Histoire Naturelle de l'Afrique du Nord, Bulletin*. 32: 191-196.
- Bellair, P. 1943. Les Elements Lourds de Quelques Sables Sahariens. *Societe d'Histoire Naturelle de l'Afrique du Nord, Bulletin* 34.
- Bellair, P. 1945. Les Elements Lourds dans les Sables de l'Erg d'Oubari (Fezzan). *Societe Geologique de France, Bulletin, Serie 5, Vol. 5. Compte Rendu Sommaire*. 8: 95-97.
- Bellair, P. 1949. Le Quaternaire de Tejerhi (Fezzan). *Societe Geologique de France, Compte Rendu*. 9-10: 160-162.
- Bellair, P. 1951. La Ramla des Daouada (Fezzan). *Institut de Recherches Sahariennes, Travaux*. 7: 69-85.
- Bellair, P. 1952. Sables Desertiques et Morphologie Eolienne. *International Geological Congress, 19th, Algiers*. 7: 113-118.
- Bellair, P. 1953(a). Le Quaternaire de Tejerhi (Fezzan). *Institut des Hautes Etudes de Tunis, Publication Scientifique*. 1: 9-16.
- Bellair, P. 1953(b). Diagramme mineralogique du Grand Erg Oriental d'El Oued à Ghadames. *CR. Societe Géologie de France* 6: 99-101.
- Bellair, P. and Janzein, A. 1952. Grand Erg Oriental. *Societe des Sciences Naturelles de Tunisie, Bulletin*.
- Belly, P.-Y. 1964. Sand Movement by Wind. *United States Army Corps of Engineers, Coastal Engineering Research Center, Technical Memorandum 1*.
- Bender, F. 1975. *Geology of the Arabian Peninsula, Jordan*. United States Geological Survey, Professional Paper 560-I. 36 p.
- Bender, G.L. 1982. *Reference Handbook on the Deserts of North America*. Westport, Connecticut: Greenwood Press, 594 p.
- Bennett, J.G. 1980. Aeolian Deposition and Soil Parent Materials in Northern Nigeria. *Geoderma*. 24(3): 241-255.
- Berg, N.H. 1983. Field Evaluation of Some Sand Transport Models. *Earth-Surface Processes and Landforms*. 8(2): 101-114.
- Berkey, C.P. and Morris, F.K. 1927. *The Geology of Mongolia*. New York: American Museum of Natural History.
- Berkstresser, C.F. 1974. Tallest (?) Sand Dune in California. *California Geology*. 27: 187.
- Berlin, G.L., Tarabzouni, M.A., Sheiko, K.M. and AL-Naser, A.H. 1985. SIR-A and Landsat MSS observations of eolian sand deposits on the Al Labbeh Plateau, Saudi Arabia. *Proceedings International Symposium on Remote Sensing of the Environment*, 19: 311-321.
- Bertin, E. 1964. Compte Rendu d'une Mission pour l'Etude des Phenomenes Ondulatoires dans le Sable au Sahara. *Institut de Recherches Sahariennes, Travaux*. 23: 181-185.
- Bertololy, E. 1900. Krauselungsmarken und Dunen. *Munchener Geographische Studien Journal*. 9.
- Besler, H. 1972(a). Geomorphologie der Dunen. *Namib und Meer*. 3: 25-35.
- Besler, H. 1972(b). Klimaverhältnisse und Klima-geomorphologische Zonierung der Zentralen Namib. *Stuttgarter Geographische Studien*. 83.
- Besler, H. 1975. Messungen zur Mobilität von Dunensciden am Nordrand der Dunen - Namib. *Wurzburger Geographische Abhandlungen*. 43: 135-147.
- Besler, H. 1976. Wasserüberforme Dunen als Glied in der Landschaftgenese der Namib. *Baseler Afrika Bibliographien*. 15: 83-106.
- Besler, H. 1977(a). Fluviale und Aolische Formung Zwischen Schott und Erg. In Meckhein, W. (ed). *Geographische Untersuchungen am Nordrand der Tunesischen Sahara*. Stuttgarter Geographische Studien. 91: 19-81.
- Besler, H. 1977(b). Untersuchungen in der Dunen Namib, Sud West Afrika. *Journal of the South West African Scientific Society*. 31: 33-64.
- Besler, H. 1979. Salinitätsmessungen an Sanden als Hilfsmittel zur Rekonstruktion Fossiler Gewässernetze in Ariden Räumen, Nach Untersuchungen in Namib Erg. *Zeitschrift für Geomorphologie*. 23(2): 192-198.
- Besler, H. 1980. *Die Dunen Namib: Entstehung und Dynamik eines Ergs*. Stuttgarter Geographische Studien. 96: 241 p.
- Besler, H. 1981. Surface Structures on Namib Dunes Caused by Moisture. *Namib und Meer*. 11: 11-17.
- Besler, H. 1982(a). A Contribution to the Aeolian History of the Tanezrouft. *Bulletin, Association de Geographes Francais*. 484: 55-60.

- Besler, H. 1982(b). The North-Eastern Rub'al Khali within the Borders of the United Arab Emirates. *Zeitschrift fur Geomorphologie*. 26: 495-504.
- Besler, H. 1983. The Response Diagram: Distinction between Aeolian Mobility and Stability of Sands and Aeolian Residuals by Grain Size Parameters. *Zeitschrift fur Geomorphologie, Supplement*. 45: 287-301.
- Besler, H. 1984(a). The Development of the Namib Dune Field According to Sedimentological and Geomorphical Evidence. In Vogel, J.C. (ed). *Late Cainozoic Palaeoclimates in the Southern Hemisphere*. SASQUA International Symposium, Swaziland. pp. 445-453.
- Besler, H. 1984(b). Verschiedene Typen von Reg, Dunen und Kleinen Ergs in der Algerischen Sahara. (Different Types of Regs, Dunes and Small Ergs in the Algerian Sahara) *Die Erde*. 115(1-2): 42-79.
- Besler, H. 1986. The Toshka-Canal dune: analysis of development and dynamics. In Nickling, W. G. (ed). *Aeolian Geomorphology*. Proceedings of the 17th Annual Binghamton Geomorphology Symposium, September 1986. pp. 113-130.
- Bettenay, E. 1962. The Salt Lake Systems and their Associated Aeolian Features in the Semi-Arid Regions of Western Australia. *Journal of Soil Science*. 13: 11-17.
- Beydoun, Z.R. 1966. Geology of the Arabian Peninsula, Eastern Aden Protectorate and Part of Dhafer. *United States Geological Survey, Professional Paper*. 560-M: 1-49.
- Bienman, P.M. 1982. *Dunes on the Navajo Uplands of Northeastern Arizona: their Relationship to Selected Environmental Variables*. University of Oklahoma, PhD Thesis, 163 p.
- Bigarella, J.J. 1972. Eolian Environments: Their Characteristics, Recognition and Importance. In Rigby, J.K and Hamblin, W.K. (eds). *Recognition of Ancient Sedimentary Environments*. Society of Economic Paleontologists and Mineralogists, Special Publication 16: 12-62.
- Bigarella, J.J. 1975(a). Structures Developed by Dissipation of Dunes and Beach Ridge Deposits. *Catena*. 2: 107-152.
- Bigarella, J.J. 1975(b). Lagoa Dune Field, State of Santa Catarina, Brazil - A Model of Eolian and Pluvial Activity. In *International Symposium on the Quaternary, Southern Brazil*. *Boletim Paranaense Geociencias*. 33: 133-167.
- Bigarella, J.J. 1979. The Lagoa Dune Field, Brazil. In McKee, E.D. (ed). *A Study of Global Sand Seas*. United States Geological Survey, Professional Paper 1052: 134-154.
- Bigarella, J.J., Basumallick, S. and Becker, R.D. 1973. Morphoscopic and Mineralogic Differences between Water-Laid and Wind-Laid Deposits. *Boletim Paranaense de Geociencias*. 31: 95-112.
- Binda, P.L. 1972. On the Sedimentology of Some Cover Sands from Zambia. *R.C.M. Report, GR 44*. Kalulushi, Zambia.
- Binda, P.L. 1983(a). On the Skewness of Some Eolian Sands from Saudi Arabia. In Brookfield, M.E. and Ahlbrandt, T.S. (eds). *Eolian Sediments and Processes*. Developments in Sedimentology 38. Amsterdam: Elsevier. pp. 27-40.
- Binda, P.L. 1983(b). Grain Size Study of Some Eolian Sands from Saudi Arabia. *Bulletin, Faculty of Earth Science*. KAU, Jeddah.
- Binda, P.L. and Hildred, P.R. 1973. Bimodal Grain Size Distributions of Some Kalahari Type Sand from Zambia. *Sedimentary Geology*. 10: 233-257.
- Birou, P., Capot-Rey, R. and Dresch, J. 1955. Recherches Morphologiques dans le Sahara Central. *Institut de Recherches Sahariennes, Travaux*. 13: 13-74.
- Biswas, A.S. 1966. A Note on Certain Sand Dunes from the Kailiane Area, Mahendragarh Area, Punjab. *Records of the Geological Survey, India*. 94(2): 221-228.
- Black, R.F. 1951. Eolian Deposits of Alaska. *Arctic*. 3: 89-111.
- Blackwelder, E. 1954. Geomorphic Processes in the Desert. *State of California, Department of Natural Resources, Division of Mines, Bulletin*. 170: 11-20.
- Blanck, J.P. 1968. Schema d'Evolution Geomorphologique de la Vallee du Niger entre Tombouctou et Labbezanga, Republique de Mali. *Bulletin, ASEQUA*. 19-20: 17-26.
- Blanford, W.T. 1876. On the Physical Geography of the Great Indian Desert. *Asiatic Society of Bengal, Journal*. 45(2).
- Blanford, W.T. 1877. Geographical Notes on the Great Desert between Sind and Rajputana. *Geological Survey of India, Memoir*. 10: 10-21.
- Blom, R. 1981. Radar Mapping of the Sonoran Dune Field, Sonora, Mexico. *Photo Interpretation*. 20(5): 4 p.

- Blom, R.G., Daily, M.I., Ealchi, L. and Saunders, R.S. 1979. Analysis of SEASAT SAR Images of Sand Dunes (abs). *NASA Technical Memorandum TM-80339*: 359-361.
- Bloore, F.J. 1980. On the Existence of Characteristic Shapes for Desert Dunes. In Jones, T.A. (ed). *Special Issues in Statistics and Earth Sciences. Journal of the International Association for Mathematical Geology*. 13(5): 461-463.
- Bogacki, M. 1969. Wydmy Rowmininyt Kurpiowskiej. (Dunes of the Durpie Plain). In Galon, R. (ed). *Procesy i Formy Wydmowe w Polsce*. Polska Akademia Nauk, Instytut Geografii, Prace Geograficzne, Warsaw. 75: 327-354.
- Bond, G. 1948. The Direction of Origin of the Kalahari Sands of Southern Rhodesia. *Geological Magazine*. 85: 305-313.
- Bond, G. 1954. Surface Textures of Sand Grains from the Victoria Falls Area. *Journal of Sedimentary Petrology*. 24: 191-195.
- Bond, G. 1957. Quaternary Sands at the Victoria Falls. In *Pan-African Congress on Prehistory, 3rd, Livingston*. pp. 115-122.
- Boocock, C. and Van Straten, O.J. 1962. Notes on the Geology and Hydrogeology of the Central Kalahari Region, Bechuanaland Protectorate. *Geological Society of South Africa, Transactions*. 65(1): 125-171.
- Borowka, M. 1979. Rekonstrukcja Rozwoju Rzeźby Zaplecza Płazy w Środkowej Części Mierzei Lebskiej. (The Reconstruction of Relief Development in the Besch Hinterland, the Central Part of the Leba Bar). *Badania Fizjograficzne nad Polską Zachodnią, Seria A*. 32: 7-20.
- Borowka, R.K. 1975. Problem of the Morphology of Fossil Dune Forms on the Leba Bar. *Quaestiones Geographicae*. 2: 39-52.
- Borowka, R.K. 1979. Accumulation and Redeposition of Eolian Sands on the Lee Slope of Dunes and their Influence on Formation of Sedimentary Structures. *Quaestiones Geographicae*. 5: 5-22.
- Borsy, A. 1964. Adalekok a Leng Elorszagi Futohomok Kerdesehez. (Summary; Contributions to the Problem of Wind Blown Sands in Poland). *Acta Geographica Debrecina*. 10: 109-142.
- Borsy, Z. 1971. Investigation of Erosion by Wind in the Wind Blown Sand Areas of Hungary (abs). *International Geographical Union, European Regional Conference, Hungary*. pp. 28-29.
- Borsy, Z. 1972. Studies on Wind Erosion in the Wind Blown Sand Areas of Hungary. *Acta Geographica Debrecina*. 17: 123-132.
- Borsy, Z. 1973. A Homokfodrok. (Ripple Marks). *Földrajzi Ertesito*. 22(1): 109-115.
- Borsy, Z. 1974. Recent Results of Wind Erosion Studies in Hungarian Blown-Sand Areas. *Földrajzi Ertesito*. 23(2): 227-236.
- Borsy, Z. 1976(a). Relief Forms of Wind Blown Sand. In Gerasimov, I.P. (ed). *Geomorphology and Paleogeography. International Geographical Congress*. 23(1): 134-137.
- Borsy, Z. 1976(b). Relief Forms of Wind Blown Sand Areas. *Egyetemi Földrajzi Intezet*. Geographical Institute of the University, 1010 Debrecen, Hungary, 10 p.
- Borsy, Z. 1977. Evolution of Relief Forms in Hungarian Wind Blown Sand Areas. *Földrajzi Közlet*. 101(1-3): 3-16.
- Borsy, Z., Csongor, E. and Szabol. 1982. Mobile Sand Phases in the North East Part of the Great Hungarian Plain. In Pecsi, M. (ed). *Quaternary Studies in Hungary. International Quaternary Association, Hungarian National Committee, Geographical Research Institute, Budapest*. Hungarian Academy of Sciences. 24: 193-208.
- Bosazza, V.L. 1953. The Palaeogeography of the Kalahari Desert in Southern Africa (abs). *International Geological Congress, 19th, Algiers*. 7: 103.
- Bosazza, V.L. 1957. The Kalahari System in Southern Africa and its Importance in Relationship to the Evolution of Man. In *Pan-African Congress on Prehistory, 3rd, Livingstone*. pp. 127-132.
- Bosazza, V.L. 1962. The Kalahari System with Particular Reference to its Occurrence on the Macondes Plateau, Northern Mozambique. *Congres Pan-Africain du Prehistoire et de l'Etude du Quaternaire, 4th, Leopoldville, Actes*. pp. 167-176.
- Boulaine, J. 1953. L'Erosion Eolienne des Sols Sales et la Morphologie Superficielle des Chotts et des Sebkhas. *Societe d'Histoire Naturelle de l'Afrique du Nord, Bulletin*.
- Boulaine, J. 1954. Le Sebkha Ben Ziane et sa "Lunette" ou Bourrelet; Exemple de Complexe Morphologique Forme par la Degradation Eolienne des Sols Sales. *Revue de Geomorphologie Dynamique*. 5(3): 102-123.

- Boulaine, J.** 1956. Les Lunettes de Basses Plaines Oranaïses: Formations Eoliennes Argileuses Liees a l'Extension de Sols Salins; la Sebkha de Ben Ziane, la Depression de Chantrit. *International Quaternary Association, 4th Congress, Actes*. pp. 143-151.
- Bourcart, J.** 1928. L'Action du Vent a la Surface de la Terre. *Revue de Geographie Physique et Geologie Dynamique*. Mars: 26-54 et Juin: 194-265.
- Bourcart, J. and Malycheff, V.** 1926. Premiers Resultats de Recherches sur les Sables du Sahara. *Societe Geologique de France, Bulletin, Serie 4*. 26(4): 191-208.
- Bourcart, J. and Malycheff, V.** 1927. Premiers Resultats d'une Etude sur le Quaternaire Marocain. *Societe Geologique de France, Bulletin, Serie 4*. 27: 3-33.
- Bourcart, J. and Malycheff, V.** 1928. L'Action du Vent a la Surface de la Terre. *Revue de Geographie Physique et de Geologie Dynamique*. 1: 26-54, 194-265.
- Bowden, A.R.** 1983. Relict Terrestrial Dunes: Legacies of a Former Climate in Coastal Northeastern Tasmania. *Zeitschrift fur Geomorphologie, Supplement*. 45: 153-174.
- Bowler, J.M.** 1967. Quaternary Chronology of Goulburn Valley Sediments and their Correlation in Southeastern Australia. *Journal of the Geological Society of Australia*. 14: 287-292.
- Bowler, J.M.** 1968. Lunette, Australian Landform, Example No. 11. *Australian Geographer*. 10: 402-404.
- Bowler, J.M.** 1971. Pleistocene Salinities and Climatic Change: Evidence from Lakes and Lunettes in Southeastern Australia. In Mulvaney, D.J. and Golson, J. (eds). *Aboriginal Man and Environment in Australia*. Canberra: Australian National University Press. pp. 47-65.
- Bowler, J.M.** 1973. Clay dunes: their occurrence, formation and environmental significance. *Earth-Science Reviews*. 9: 315-338.
- Bowler, J.M.** 1975. Deglacial Events in Southern Australia: their Age, Nature and Palaeoclimatic Significance. In Suggate, R.P. and Cresswell, M.M. (eds). *Quaternary Studies, Selected Papers from the Ninth International Quaternary Association Congress*. Royal Society of New Zealand, Bulletin. 13: 75-82.
- Bowler, J.M.** 1976. Aridity in Australia: Age, Origins and Expression in Aeolian Landforms and Sediments. *Earth-Science Reviews*. 12: 179-310.
- Bowler, J.M.** 1978(a). Quaternary Climate and Tectonics in the Evolution of the Riverine Plain, Southeastern Australia. In Davies, J.L. and Williams, M.A.J. (eds). *Landform Evolution in Australia*. Canberra: Australian National University Press. pp. 70-112.
- Bowler, J.M.** 1978(b). Glacial Age Aeolian Events at High and Low Latitudes: A Southern Hemisphere Perspective. In Van Zinderen Bakker, E.M. (ed). *Antarctic Glacial History and World Paleoenvironments*. Balkema. pp. 149-172.
- Bowler, J.M.** 1983. Lunettes as Indices of Hydrologic Change, a Review of Australian Evidence. *Proceedings of the Royal Society of Victoria*. 95(3): 147-168.
- Bowler, J.M. and Harford, L.B.** 1963. Geomorphic Sequence of the Riverine Plain near Echuca. *Australian Journal of Science*. 26(3): 88-.
- Bowler, J.M. and Magee, J.W.** 1978. Geomorphology of the Mallee Region in Semi-Arid Northern Victoria and the Western New South Wales. *Transactions of the Royal Society of Victoria*. 90: 5-21.
- Bowler, J.M. and Wasson, R.J.** 1984. Glacial Age Environments of Inland Australia. In Vogel, J.C. (ed). *Late Cainozoic Palaeoclimates of the Southern Hemisphere*. Proceedings of the International Symposium held by the South African Society for Quaternary Research. Rotterdam: A.A. Balkema. pp. 183-208.
- Boyshenko, A.F.** 1979. Eolovyye Peski Doliny Ozer, MNR. (Eolian Sands of the Valley of Lakes, Mongolia). *Akademiya Nauk SSSR, Komissiya po Izucheniya Chetvertichnogo Perioda, Byulleten*. 49: 125-127.
- Bradbury, J.P.** 1980. Late Quaternary vegetation history of the Central Great Plains and its relationship to eolian processes in the Nebraska Sand Hills. In *Geologic and Paleocologic Studies of the Nebraska Sand Hills*, Geological Survey Professional Paper 1120-C: 29-36.
- Braun, G.** 1911. Entwicklungsgeschichtliche Studien au Europäischen Flachlandskusten und ihren Dunen. *Universitat Berlin, Institut fur Meerskunde, Veroffentlichungen* 15. 174 p.
- Breed, C.S.** 1975. Sand Dunes in Desert Areas (abs). *Northern Arizona Remote Sensing Symposium*. United States Geological Survey, Flagstaff, Arizona.
- Breed, C.S.** 1977. Terrestrial Analogs of the Hellospontus Dunes, Mars. *Icarus*. 30: 326-340.

- Breed, C.S. and Breed, W.J. 1978. Field Studies of Sand - Ridge Dunes in Central Australia and Northern Arizona (abs). *NASA Technical Memorandum*. TM- 79729: 216-218.
- Breed, C.S. and Breed, W.J. 1979. Dunes and Other Windforms of Central Australia, and a Comparison with Linear Dunes on the Moenkopi Plateau, Arizona. In El-Baz, F. and Warner, D.M. (eds). *Apollo - Soyuz Test Project Vol. 2: Earth Observations and Photography*. pp. 319-358.
- Breed, C.S. and Grow, T. 1979. Morphology and Distribution of Dunes in Sand Seas Observed by Remote Sensing. In McKee, E.D. (ed). *A Study of Global Sand Seas*. United States Geological Survey, Professional Paper 1052: 253-304.
- Breed, C.S. and Ward, A.W. 1979. Longitudinal Dunes on Mars (abs). *Second International Colloquium on Mars*. NASA Conference Publication. CP-2072: 10.
- Breed, C.S., Embabi, N.S., El Etr, H.A. and Grolier M.J. 1980. Wind Deposits in the Western Desert. In El-Baz, F. et al. *Journey to the Gilf Kebir and Uweinat, Southwest Egypt, 1978*. *Geographical Journal*. 146: 88-90.
- Breed, C.S., Fryberger, S.C., Andrews, S., McCauley, C., Lennartz, F., Geber, D. and Horstman, K. 1979. Regional Studies of Sand Seas using Landsat (ERTS) Imagery. In McKee, E.D. (ed). *A Study of Global Sand Seas*. United States Geological Survey, Professional Paper 1052: 305-398.
- Breed, C.S., Grolier, M.J. and McCauley, J.F. 1979. Morphology and Distribution of Common "Sand" Dunes on Mars: Comparison With the Earth. *Journal of Geophysical Research*. 84: 8183-8204.
- Breed, C.S., McCauley, J.F., Ward, A.W. and Fryberger, S.F. 1978. Dune Types and Distribution in Sand Seas, Earth and Mars (abs). In Greeley R. and Black D. (eds). *Abstracts for the Planetary Geology Field Conference on Aeolian Processes*. NASA Publication TM-78455: 9.
- Breed, C.S., McCauley, J.F., Breed, W.J., Cotera, A.S. Jr. and McCauley, C.K. 1984. Eolian (Wind-formed) Landscapes. In Smiley, T.L., Nations, J.D., Pewe, T.L. and Schafer, J.P. (eds) *Landscapes of Arizona, the Geological Story*. Lanham, Maryland: University Press of America. pp. 359-413.
- Breed, W.J. and Breed, C.S. 1978. Star Dunes as a Solitary Feature in the Grand Canyon, Arizona and in a Sand Sea in Sonora, Mexico (abs). In Greeley, R. and Black, D. (eds). *Abstracts for the Planetary Geology Field Conference on Aeolian Processes*. NASA Publication. TM-780455: 11-12.
- Bremner, J.M. 1984. The Coastline of Namibia. *Joint Geological Survey/ University of Cape Town Marine Geoscience Group, Technical Report*. 15: 200-206.
- Brera, A.M. 1979. *Application of Landsat Imagery to Monitor Sand Dune Movement in the Sahara Desert*. University of Tennessee, Knoxville. PhD Thesis, 247 p.
- Briem, E. 1977. Bietrage zur Genese und Morphodynamik des Ariden Formenschatzes unter Besonderer Berücksichtigung des Problems der Flachengildung, Aufgezeigt am Beispiel der Sandschwemmebenen in der Ostlichen Zentralen Sahara. (Investigation on the Genesis and Morphodynamics of Arid Forms with Special Consideration of the Problems of Plain Construction, the Example of the Sand Plains of East Central Sudan). *Berliner Geographische Abhandlungen*. 26. 89 p.
- Briggs, J.D. 1983. Heavy Mineralogy of the Qatar Desert Sands. Unpublished Report. *Qatar Ministry of Public Works*.
- Broggi, J.A. 1961. Las Ciclopeas Dunas Compuestas de la Costa Peruana, su Origen y Significacion Climatica. *Sociedad Geologica del Peru, Boletin*. 36: 61-66.
- Brookfield, M. 1970. Dune Trend and Wind Regime in Central Australia. *Zeitschrift fur Geomorphologie, Supplement*. 10: 121-158.
- Brookfield, M.E. 1977. The Origin of Bounding Surfaces in Ancient Aeolian Sandstones. *Sedimentology*. 24: 303-332.
- Brookfield, M.E. 1980. Evolution of Recent and Ancient Ergs (Sand Seas) (abs). *International Geological Congress Abstracts*. 26(2): 443.
- Brookfield, M.E. 1982. Eolian Sediments and Processes. *Episodes*. 2: 9-10.
- Brookfield, M.E. 1983. Eolian sands. In: Walker, R.G. (ed). *Facies Models*. (2nd Edition). Geoscience Canada Reprint Series 1. pp.91-103.
- Brookfield, M.E. and Ahlbrandt, T.S. (eds). 1983. *Eolian Sediments and Processes*. Developments in Sedimentology 38. Amsterdam: Elsevier, 660 p.
- Brosset, D. 1939. Essai sur les Ergs du Sahara Occidental. *Institut Francais d'Afrique Noire, Dakar, Bulletin*. 1: 657-690.

- Brown, G.A.** 1959. Desert Dune Sands from the Canning Basin, Western Australia. *Bureau of Mineral Resources, Australia Records* 1959/82. (unpublished).
- Brown, G.F.** 1960. Geomorphology of Western and Central Saudi Arabia. *International Geological Congress, 21st, Copenhagen, Report*. 21: 150-159.
- Brown, W.E. and Saunders, R.S.** 1978. Radar Backscatter from Sand Dunes (abs). *NASA Technical Memorandum TM-79729*: 137-139.
- Brugmans, F.** 1983. Wind Ripples in an Active Drift Sand Area in the Netherlands: a Preliminary Report. *Earth-Surface Processes and Landforms*. 8: 527-534.
- Bryan, K.** 1922. Erosion and Sedimentation in Papago County, Arizona. *United States Geological Survey, Bulletin*. 730: 19-90.
- Bryan, K. and McCann, F.T.** 1943. Sand Dunes and Alluvium near Grants, New Mexico. *American Antiquity*. 8: 281-295.
- Bucher, W.H.** 1919. On Ripples and Related Surface Sedimentary Forms. *American Journal of Science*. 47(4): 149-210, 241-269.
- Buckley, R.C.** 1979(a). *Soils and Vegetation of Central Australian Sandridges*. Australian National University, Canberra. PhD Thesis.
- Buckley, R.C.** 1979(b). *Soils and Vegetation of Central Australian Sandridges: a Review*. CSIRO Division of Land Use Research, Technical Memorandum. 79/19.
- Buckley, R.C.** 1981(a). Parallel Dunefield Ecosystems: Southern Kalahari and Central Australia. *Journal of Arid Environments*. 4: 287-298.
- Buckley, R.C.** 1981(b). Central Australian Sandridges. *Journal of Arid Environments*. 4: 91-101.
- Buckley, R.C.** 1982(a). Use and Conservation of Central Australian Dunefields. *Biological Conservation*. 22: 197-206.
- Buckley, R.C.** 1982(b). Soils and Vegetation of Central Australian Sandridges, Vol. iv, Soils. *Australian Journal of Ecology*. 7(2): 187-200.
- Buckley, R.C., Chen, W., Liu, Y. and Zhu, Z.** 1986. Characteristics of the Tengger dunefield, north central China and comparison with the central Australian dunefields. *Journal of Arid Environments* 10: 97-102.
- Buckley, R.C. and Ling, Y.Q.** 1986. Quantitative effect of vegetation on aeolian sand movement. *Abstracts 12 th International Congress on Sedimentology*, 47.
- Bulgareau, V.** 1971. Consideratii Geodinamice Privind Nisipurile Eoliene Holocene din Nardul Ostravului Moldova Veche, Banat. (Geodynamical Considerations of the Holocene Eolian Sands from North of the Moldova Veche Islet, Banat). *Dari de Seama ale Sedintelor, Institut Geologic*. 57(5): 33-52.
- Bunker, D.G.** 1953. The South-West Borderlands of the Rub'al Khali. *Geographical Journal*. 119(4): 420-430.
- Burford, A.E.** 1961. Petrology of the Great Sand Dunes, Colorado. *Proceedings of the West Virginian Academy of Science*. 33: 87-90.
- Busche, D. and Hagedorn, H.** 1980. Landform Development in Warm Deserts - the Central Saharan Example. *Zeitschrift fur Geomorphologie, Supplement*. 36: 123-139.
- Busche, D. and Besler, H.** 1982(a). Sand dunes and blown sand. In *Water Resources and Soil Potential Development Project New Valley, Prefeasibility Study, Final Report* vol 1. Beller Consult Ltd and ACI Aqua Project Consult Ltd, Preiburg/Siegen - RFA for Arab Republic of Egypt, Ministry of Development, State for Housing and Land Reclamation, New Valley Authority and Federal Republic of Germany, German Agency for Technical Cooperation Ltd.
- Busche, D. and Besler, H.** 1982(b). The Toshka canal dune and dunes in the Toshka reservoir area. In Arab Republic of Egypt, Ministry of Irrigation, Technical Cooperation Ltd (ed) *Toshka Multipurpose Reservoir Project, Prefeasibility Study, Vol II, Final Report, General Investigations*.
- Busche, D. Draga, M. and Hagedorn, H.** 1984. *Les sables eoliens. Modeles et dynamique. La menace elienne et son controle. Bibliographie annotee*. GTZ, Eschborn. 770pp.
- Butler, B.E. and Churchward, H.M.** 1983. Aeolian Processes. In *Soils, an Australian Viewpoint*. CSIRO. pp. 91-99.
- Butzer, K.W.** 1961. Desert Landforms at the Karka Oasis, Egypt. *American Association of Geographers, Annals*. 55: 578-591.
- Bykov, G.E.** 1932. Les Formes du Relief de la Region d'Atbassar (Kazakhstan). *Gosudarstvennoe Geograficheskoe Obschestvo, Izvestia*. 654: 61-75.
- Bylov, B.A.** 1981. Major Desert Ecosystems of Central Asia and Kazakhstan. *Problems of Desert Development*. 4: 20-31.
- Byrne, R.J.** 1968. Aerodynamic roughness criteria in eolian sand transport. *Journal of Geophysical Research* 73: 541-547.

- Cailleux, A. 1936. Les Actions Eolienne Periglaciaire en Europe. *Societe Geologique de France, Bulletin*. 6(5): 102-104.
- Cailleux, A. 1941. Action du Vent et du Gel au Quaternaire dans le Region Bordelaise. *Societe Geologique de France, Bulletin*. 15(5): 259-266.
- Cailleux, A. 1942. Les Action Eoliennes Periglaciaire en Europe. *Societe Geologique de France, Bulletin, Serie 6, Compte Rendu*. 21: 46-.
- Cailleux, A. 1951. Interpretation Climatique des Eolisations Pliocene et Quaternaires en France. *Societe Geologiques de France, Bulletin, Serie 6, Compte Rendu*. 3-4: 44-46
- Cailleux, A. 1952(a). Observations a l'Article de M. Walther sur les Sables Eoliens. *Revue de Geomorphologie Dynamique*. 3(2): 99.
- Cailleux, A. 1952(b). L'Indice d'Emousse des Grains de Sable et Gres. *Revue de Geomorphologie Dynamique*. 2: 78-87.
- Cailleux, A. 1972. Contribution de la Morphoscopie des Sables a la Geomorphologie de l'USSR et du Nord-Ouest de la Chine. *Hans-Poser-Festschriften Gottinger Geographische Abhandlungen*. 60: 39-63.
- Caillieux, A. and Wuttke, K. 1964. Morphoscopie des sables quartzeux dans l'ouest des Etats Unis d'Amerique du Nord. *Boletim Paranaense de Geografia*. 10-15: 79-87. Curitiba.
- Calkin, E. and Rutford, R.H. 1974. The Sand Dunes of Victoria Valley, Antarctica. *Geographical Review*. 64(2): 189-216.
- Cameron, R.E. 1969. Cold Desert Characteristics and Problems Relevant to Other Arid Lands. In McGinnies, W.G. and Goldman, B.J. (eds). *Arid Lands in Perspective*. American Association for the Advancement of Science, Washington, D.C. and University of Arizona Press, Tucson. pp. 167-205.
- Campbell, E.M. 1968. Lunettes in South Australia. *Transactions of the Royal Society of Southern Australia*. 92: 85-109.
- Canon, L. and Galichet, M. 1975. *Etude de Teledetection de la Dynamic Eolienne de Transport, d'Accumulation et de Correlation Entre l'Erg de Mourzouk et l'Erg d'Admer a Travers les Tassili N'Ajjer*. Memorandum de Maitrise.
- di Caporiacco, L. 1936. Dune Australiane e dune del Deserto Libico. *L'Universo (Istituto Geografico Militare, Firenze)*. 17(9): 665-667.
- Capot-Rey, R. 1941. Observations Geologiques a la Bordure de l'Erg Occidental. *Societe d'Histoire Naturelle de l'Afrique du Nord, Bulletin*. 32: 47.
- Capot-Rey, R. 1943. La Morphologie de l'Erg Occidental. *Institut de Recherches Sahariennes, Travaux*. 2: 69-104.
- Capot-Rey, R. 1945. The Dry and Humid Morphology of the Western Erg. *Geographical Review*. 35: 391-407.
- Capot-Rey, R. 1947. L'Edeyen de Mourzouk. *Institut de Recherches Sahariennes, Travaux*. 4: 67-109.
- Capot-Rey, R. 1953(a). Recherches Geographiques sur les Confins Algero-Libyens. *Institut de Recherches Sahariennes, Travaux*. 10: 33-73.
- Capot-Rey, R. 1953(b). *Le Sahara Francais*. Paris: Presses Universitaires de France. 564 p.
- Capot-Rey, R. 1963. Contribution a l'Etude et a la Representation des Barkhanes. *Institut de Recherches Sahariennes, Travaux*. 22: 37-60.
- Capot-Rey, R. 1965. Remarques sur Quelques Sables Saharien. *Institut de Recherches Sahariennes, Travaux*. 23: 153-163.
- Capot-Rey, R. 1970. Remarques sur les Ergs du Sahara. *Annals de Geographie*. 79: 2-19.
- Capot-Rey, R. and Capot-Rey, F. 1948. Le Deplacement des Sables Eoliens et la Formation des Dunes Desertiques, d'Apres R.A. Bagnold. *Institut de Recherches Sahariennes, Travaux*. 5: 47-80.
- Carbonnel, J.P. and Barbey, C. 1972. Decouverte de Sepultures Neolithiques dans la Complexe Dunaire du Draa Malichidane, Mauritanie. *Notes Africaines*. 136: 108-111.
- Carlisle, W.J. and Marrs, R.W. 1982. Eolian Features of the Southern High Plains and their Relationship to Windflow Patterns. *Geological Society of America, Special Paper*. 192: 89-105.
- Carnier, J. 1891. Les Dunes au Sahara. *Societe Geographique Francais, Comptes Rendus*. 114 p.
- Carrol, E. 1939. The Movement of Sand by Wind. *Geographical Magazine*. 76: 6-22.
- Carroll, D. 1944. Desert Sands. Simpson Desert Expedition, 1939, Scientific Report 2: Geology. *Royal Society of South Australia, Transactions and Proceedings*. 68(1): 49-59.
- Carter, L.D. 1981. A Pleistocene Sand Sea on the Alaskan Arctic Coastal Plain. *Science*. 211: 381-383.

- Carter, L.D.** 1982. Late Wisconsin Desertification in Northern Alaska (abs). *95th Annual Meeting of the Geological Society of America. Abstracts with Programs*. 14(7).
- Cate, J.A.M.** 1969. Valley Coversand Ridge, A New Morphological Element in the Guelders Valley. *Biuletyn Peryglacjalny*. 20: 345-354.
- Cavelier, C.** 1970. *Geological Description of the Qatar Peninsula*. Bureau de Recherches Geologiques et Minieres, Paris. 39 p.
- Cayeux, L.** 1928. Origines de Sables des Dunes Sahariennes. *International Geological Congress, 14th, Madrid, 1926, Compte Rendu*. pp. 783-788.
- Chakrabarti, A.** 1965. Selective Removal of Sand in Dune Sediments. *Geological, Mining and Metallurgical Society of India, Quarterly Journal*. 37: 189-190.
- Chakrabarti, A.** 1968. Polymodal Character in Dune Sediments. *Quarterly Journal of the Geological Mining and Metallurgical Society of India*. 40: 51-54.
- Chamard, Ph.C. and Courel, M.F.** 1975. Contribution a l'Etude Geomorphologique du Sahel: les Formes Dunaires du Niger Occidental et de la Haut - Volta Septentrionale. *Institut Fondamental d'Afrique Noire, Serie A. Sciences Naturelles, Bulletin*.
- Chan, M.A., Kocurek, G., Driesse, S.G. and Dott, R.H.** 1985. Overview of Complexities in Eolian and Marine Interactions (abs). *Society of Economic Paleontologists and Mineralogists, Second Annual Midyear Meeting, Colorado*.
- Chao Sung-chiao.** 1981(a). *Desert Lands of China*. International Centre for Arid and Semi-Arid Land Studies, Texas Technical University, Lubbock. Publication No. 81-1. 47 p.
- Chao Sung-chiao.** 1981(b). The Sand Deserts and the Gobi: a Preliminary Study of their Origin and Evolution. In *Desert Lands of China*. International Centre for Arid and Semi-Arid Land Studies, Texas Technical University, Lubbock. Publication No. 81-1.
- Chao Sung-chiao.** 1984(a). The Sandy Deserts and the Gobi of China. In El-Baz, F. (ed). *Deserts and Arid Lands*. The Hague: Martinus Nijhoff Publishers. pp 95-113.
- Chao Sung-chiao.** 1984(b). Analysis of Desert Terrain in China using Landsat Imagery. In El-Baz, F. (ed). *Deserts and Arid Lands*. The Hague: Martinus Nijhoff Publishers. pp 115-132.
- Chao Sung-chiao and Jiaming, X.** 1982. Origin and Development of the Shamo (Sandy Deserts) and the Gobi (Stony Deserts) of China. *Striae*. 17: 79-91.
- Chapman, R.W.** 1971. Climatic Changes and the Evolution of Landforms of the Eastern Province of Saudi Arabia. *Geological Society of America, Bulletin*. 82: 2713-2728.
- Chapman, R.W.** 1978. General Information on the Arabian Peninsula: Geomorphology. In Al-Sayari, S.S. and Zlot, J.G. (eds). *Quaternary Period in Saudi Arabia Vol. 1; Sedimentological, Hydro - Geological, Hydrochemical, Geomorphological and Climatological Investigations in Central and Eastern Saudi Arabia*. New York: Springer-Verlag. pp. 19-30.
- Chase, C.M.** 1977. Central Pennsylvania Sand Dunes. *Pennsylvania Geology*. 8(3): 9-12.
- Chaudhri, R.S. and Khan, H.M.M.** 1981. Textural Parameters of Desert Sediments - Thar Desert, India. *Sedimentary Geology*. 28: 43-62.
- Chavaillon, J.** 1964. *Les Formations Quaternaires du Sahara Nord-Occidental*. Publication de Centre de Recherches sur les Zone Arides, Paris, Serie Geologique 5. 393 p.
- Chemin, M.C., Mainguet, M and El-Baz, F.** 1982. Eolian dynamics in the Western Desert of Egypt as revealed by Landsat data. In *Proceedings of International Symposium on Remote Sensing of Environment, 1st Thematic Conference, Remote Sensing of Arid and Semi Arid Lands*. Environmental Research Institute, Ann Arbor, Michigan.
- Cheng, Jo-Ai.** 1963. Studies on the Characteristics of Sweat in the Sand-Dunes of Desert Areas, Central Kansu (in Chinese). *Acta Pedologica Sinica*. 11(1): 84-91.
- Chenwoith, L. and Cooley, M.E.** 1960. Pleistocene Cinder Dunes near Cameron, Arizona. *Plateau*. 33: 14-16.
- Chepil, W.S.** 1965. Function and Significance of Wind in Sedimentology. *United States Department of Agriculture, Miscellaneous Publication*. 970: 89-94.
- Chepil, W.S. and Woodruff, N.P.** 1963. The physics of wind erosion and its control. *Advances in Agronomy*. 15: 211-302.
- Cherednichenko, V.P.** 1980. Role of the Anthropogenic Factor in the Formation of Eolian Relief in the Trans-Unguz-Kara-Kum Desert. *Problems of Desert Development*. 3: 18-21.

- Chmielewska, M. and Chmielewski, W. 1960. The Stratigraphy and Chronology of the Witow Dune, Leczyca (in Polish). *Biuletyn Peryglacjalny*. 8: 133-141.
- Chmielewska, M. and Wasylikowa, K. 1961. Witow: Late-Pleistocene Dunes and Peat-Bogs. *International Congress on Quaternary*, 6th, Warsaw. *Guidebook of Excursion C*, the Lodz Region. pp. 75-84.
- Choubert, G. 1941. Le Dra et l'Irigui. *Revue de Geographie du Maroc*. 1: 33-36.
- Choubert, G. 1945. Note Preliminaire sur le Pontien du Maroc. *Societe Geologique de France, Bulletin*. 15(5): 677-684.
- Chu Chen Ta. 1963. A Preliminary Study of the Problem of the Dynamic Changing Process of Sand Dunes under the Presence of Wind. *Ti Li Chi - K'au (Geographical Monographs)*, Peking. 5: 58-78. Department of Commerce, Clearing House for Federal Science and Technical Information.
- Chu Chen Ta et al. 1961. Survey methods of shifting sand topography in desert regions. *Scientific Press*, Peiping, 61 p. Translated 1962 by US Joint Publications Research Service, Washington, D.C. document 16.637, 95 p. National Technical Information Service ref AD 299-215.
- Christian, L.B. 1970. Ancient Wind Blown Terrains of Central California. *California Division of Mines and Geology, Mineral Information Service*. 23(9): 175-179.
- Christensen, P.R. 1983. Eolian Intracrater Deposits on Mars: Physical Properties and Global Distribution. *Icarus*. 56: 496-518.
- Christensen, P.R. 1986. Regional Dust Deposits on Mars: Physical Properties, Age, and History. *Journal of Geophysical Research*. 91: 3533-3545.
- Christensen, R.J. 1973. *Petrographic and Textural Analysis of a Barchan Dune Southwest of the Salton Sea, Imperial County, California*. California State University, San Diego. MSc Thesis.
- Chudeau, R. 190-. L'Air et la Region de Zinder. *Geographie*. 15: 321-336.
- Chudeau, R. 1907. Excursion Geologique au Sahara et Soudan. *Societe Geologique de France, Bulletin, Serie 4*. 7: 319-346.
- Chudeau, R. 1909(a). *Le Sahara Sudanaise*. Paris: Colin, 326 p.
- Chudeau, R. 1909(b). Notes Geologique sur la Mauritanie. *Geographie*. 20: 9-24.
- Chudeau, R. 1910. Rapport de Journee dans le Bassin de Tombouctou. *Journal Officiel de l'Afrique Occidentale Francaise, Supplement*.
- Chudeau, R. 1911. Remarques sur les Dunes. A Propos d'une Etude de M. H.J. Lwellyn-Beadnell. *Geographie*. 24: 153-160.
- Chudeau, R. 1915(a). Excursion Geologique au Nord et Est de Tombouctou. *Societe Geologique de France, Bulletin*. 15: 95-112.
- Chudeau, R. 1915(b). L'Azaouad et le Djouf. *Geographie*. 30: 417-436.
- Chudeau, R. 1918. La Depression du Faguibine. *Annales de Geographie*. pp. 43-60.
- Chudeau, R. 1920. L'Etude sur les Dunes Sahariennes. *Annales de Geographie*. 29: 334-.
- Churchward, H.M. 1961. Soil Studies at Swan Hill, Victoria, Australia. I: Soil Layering. *Journal of Soil Science*. 12: 73-86.
- Churchward, H.M. 1963. Soil Studies at Swan Hill, Victoria, Australia. II: Dune Moulding and Parna Formation. III: Some Aspects of Soil Development on Aeolian Material. IV: Groundsurface History and its Expression in the Array of Soils. *Australian Journal of Soil Research*. 1: 103-116, 117-128, 242-255.
- Churska, Z. 1969. Fazy Rozwoju Wydmy w Czernikowie - Witoiwezu. (Evolution of a Dune at Czernikowo - Witowaz). In Galon, R. (ed). *Procesy i Formy Wydmowe w Polsce*. Polska Akademia Nauk, Instytut Geografii, Prace Geograficzne, Warsaw. 75: 181-207.
- Clapp, F.G. 1926. In the Northwestern Australian Desert. *Geographical Review*. 16: 206-231.
- Clark, J.D., Williams, M.A.J. and Smith, A.B. 1973. The Geomorphology and Archaeology of Adrar Bous, Central Sahara - a Preliminary Report. *Quaternaria*. 18: 245-297.
- Clarke, A.O. 1979. The Sandhills; a Quaternary Coastal - Interior Dune Field in Southern California (abs). *Yearbook - Association of Pacific Coast Geographers*. 41: 148-149.
- Clarke, R.H. and Prestley, C.H.B. 1970. The Asymmetry of Australian Desert Sand Ridges. *Search*. 1: 77-78.
- Clayton, W.D. 1957. The Swamps and Sand-Dunes of Hadejia. *Nigerian Geographical Journal*. 1: 31.
- Clayton, W.D. 1966. Vegetation Ripples near Bummi, Nigeria. *Journal of Ecology*. 54: 415-417.
- Clements, T. et al. 1963. A Study of Windborne Sand and Dust in Desert Areas. *United States Army Natick Laboratories, Technical Report ES-8*. 61 p.

- Clements, T. 1977. *Geological Story of Death Valley*. Death Valley Forty-Niner's, Burbank, California. 10th ed. 63 p.
- Clements, T., Merriam, R.H., Stone, R.O., Eymann, J.C. and Reade, A.B. 1957. A Study of Desert Surface Conditions. *United States Army Quatermaster Research and Development Centre, Environmental Protection Research Division, Technical Report*. EP-53.
- Clemmensen, L.B. 1986. Storm-generated eolian sand shadows and their sedimentary structures, Vejers Strand, Denmark. *Journal of Sedimentary Petrology*. 56: 520-527.
- Cleveringa, P., de Gans, W., Kolstrup, E. and Paris, F.P. 1977. Vegetational and Climatic Developments During the Late Glacial and Early Holocene and Aeolian Sand Sedimentation as Recorded in the Uteringsveen, Drenthe, The Netherlands. *Geologie en Mijnbouw*. 56(2): 234-242.
- Clos-Arceuduc, A. 1965. Les Fleuves de Sables entre le Maroc et la Mauritanie et la Theorie des Barkhanes. *Comptes Rendus, Academie des Sciences, Paris*. 261(18): 3637-3639.
- Clos-Arceuduc, A. 1966. Le Role Determinant des Ondes Aeriennes Stationnaires dans la Structure des Ergs Sahariens et les Formes d'Erosion Avoisinantes. *Comptes Rendus, Academie des Sciences, Paris*. 262D: 2673-2676.
- Clos-Arceuduc, A. 1967. La Direction des Dunes et ses Rapports Avec Celle du Vent. *Comptes Rendus des Seances de l'Academie des Sciences D*. 264: 1393-1396.
- Clos-Arceuduc, A. 1969(a). Emploi des Couvertures Photographiques Aeriennes pour la Verification des Theories Relatives a la Formation des Dunes Allongees Dans une Direction Voisine de Celle du Vent. *Proceedings of the Eleventh International Photogrammetric Congress*. 17(5): Paper No. 8, 8 p.
- Clos-Arceuduc, A. 1969(b). Essai d'Explication des Formes Dunaires Sahariennes. *Etudes de Photo-Interpretations*. 4.
- Clos-Arceuduc, A. 1969(c). L'Interet des Formes Dites Mineures pour l'Etudes des Phenomenes Dunaires; Reflexions sur la Methode en Photo-Interpretation. *Societe Francaise de Photogrammetrie, Bulletin*. 36: 43-51.
- Clos-Arceuduc, A. 1969/1970. Emploi des Photographies Aeriennes pour l'Etude des Dunes Sahariennes Allongees dans une Direction Voisine de Celle du Vent. *Photogrammetria*. 25(5/6): 189-199.
- Clos-Arceuduc, A. 1971. a.- Disposition des Structures Eoliennes au Voisinage d'un Groupe de Barkhanes a Parcours Limite. (2(2): 1-7). b.- Etude d'un Group Isole de Barkhanes au Sud du Tibesti. (2(2): 8-14). c.- Evolution des Barkhanes sur un Parcours Limite par Deux Bandes ou la Deflation Eolienne Interdit la Presence de Dunes. (2(3): 15-21). *Photo-Interpretation*. 10 (71-2). Paris.
- Clos-Arceuduc, A. 1972. Typologie des Dunes Vives. *Travaux de l'Institut de Geographie de Reims*. 6: 63-72.
- Clos-Arceuduc, A. 1973(a). Changement de Direction d'une Groupe de Silks Sitot Apres sa Formation. *Photo-Interpretation*. 12 (73-1): 1-7.
- Clos-Arceuduc, A. 1973(b). L'Apparition des Silks Formes aux Depens des Sables Fixes; Signe de l'Avance du Desert. *Photo-Interpretation*. 12 (73-1): 8-14.
- Coaldrake, J.E. 1954. The Sand-Dunes of the Ninety-Mile Plain, Southeastern Australia. *Geographical Review*. 44: 394-407.
- Cobb, C. 1931. Dune Sands and Aeolian Soils in Relation to Present and Past Climatic Conditions on the Continent of North America. *International Geographical Congress, 13th, Paris, Proceedings*. 2: 712.
- Cockayne, L. 1911. *Report on the Sand Dune Areas of New Zealand and their Geology, Botany and Reclamation*. Wellington: J. Mackay, Government Printer, 76 p.
- Coffey, G.N. 1909. Clay Dunes. *Journal of Geology*. 17: 754-755.
- Collinson, J.D. 1978. Deserts. In Reading, H.G. (ed). *Sedimentary Environments and Facies*. Blackwell Scientific Publications. pp 80-96.
- Conacher, A.J. 1971. The Significance of Vegetation, Fire and Man in the Stabilisation of Sand Dunes near the Warburton Range, Central Australia. *Earth Sciences Journal*. 5: 92-94.
- Conally, G.G., Krinsley, D.H. and Sirkin, L.A. 1972. Late Pleistocene Erg in the Upper Hudson Valley, New York. *Geological Society of America, Bulletin*. 83(5): 1537-1541.

- Cooke, H.J. 1975. The Paleoclimatic Significance of Caves and Adjacent Landforms in Western Ngamiland, Botswana. *Geographical Journal*. 141: 430-444.
- Cooke, H.J. 1980. Landform Evolution in the Context of Climatic Change and Neotectonism in the Middle Kalahari of North Central Botswana. *Transactions, Institute of British Geographers, New Series*. 5: 80-99.
- Cooke, H.J. 1984. The Evidence from Northern Botswana of Late Quaternary Climatic Change. In Vogel, J.C. (ed). *Late Cainozoic Paleoclimates of the Southern Hemisphere*. Proceedings of the International Symposium held by the South African Society for Quaternary Research. Rotterdam: A.A. Balkema. pp. 265-278.
- Cooke, H.J. and Verstappen, H.T. 1984. The Landforms of the Western Makgadikgadi Basin in Northern Botswana, with a Consideration of the Chronology of the Evolution of Lake Paleo-Makgadikgadi. *Zeitschrift für Geomorphologie*. 28(1): 1-19.
- Cooke, R.U. and Warren, A. 1973. *Geomorphology in Deserts*. London: Batsford Ltd. 347 p.
- Cooke, R.U., Brunsden, D., Doornkamp, J.C. and Jones, D.K.C. et al 1982. *Urban geomorphology in drylands*. United Nations Publication, Oxford University Press. 324 p.
- Cooper, W.S. 1944. Development and Maintenance of the Natural Profile of a Transverse Dune Ridge. *American Philosophical Society, Year Book*. pp. 150-153.
- Cooper, W.S. 1958. Coastal Sand Dunes of Oregon and Washington. *Geological Society of America, Memoir* 72. 169 p.
- Cooper, W.S. 1967. Coastal dunes of California. *Geological Society of America, Memoir*. 104: 131 p.
- Coque, R. 1979. Sur la Place du Vent dans l'Erosion en Milieu Aride. L'Exemple des Lunettes (Bourrelets Eoliens) de la Tunisie. *Mediterranee*. 35(1-2): 15-21.
- Coque, R. and Jauzein, A. 1967. Geomorphology and Quaternary Geology of Tunisia. *Ninth Annual Field Conference of the Petroleum Exploration Society of Libya*. pp. 227-257.
- Coque, R., Mainguet, M. and Rognon, P. 1980. Les Grandes Orientations de la Recherche sur les Régions Arides. *Recherches Géographiques en France*. Comité National Français de Géographie, Centre National de Recherche Scientifique, Paris. pp. 99-107.
- Cornet, A. 1950. Reconnaissance Géologique dans l'Erg d'Oubari et la Hamada Zeher (Fezzan). *Institut de Recherches Sahariennes, Travaux*. 6: 63-72.
- Cornish, V. 1897. On the Formation of Sand Dunes. *Geographical Journal*. 9: 278-302.
- Cornish, V. 1900(a). *Formation des Dunes de Sables*. Bruxelles.
- Cornish, V. 1900(b). On Desert Sand Dunes Bordering the Nile Delta. *Geographical Journal*. 15: 1-32.
- Cornish, V. 1908. On the Observation of Desert Sand Dunes. *Geographical Journal*. 31: 400-402.
- Cornish, V. 1914. *Waves of Sand and Snow*. London: T. Fisher-Unwin.
- Cornish, V. 1928. Limits of Forms and Magnitude of Desert Dunes. *Nature*. 121: 620-622.
- Corsi, B. and Warrick, S. 1984. Sand Dunes; Now and Then. *Pacific Discovery*. 37(4): 22-28.
- Cortemigloia, G.C. 1979. Caratteristiche Morfometriche delle Ondulazioni da Vento del Sahara Algerino, Nigerino e Tunisino. (Morphometric Characteristics of Eolian Ripple Marks in the Algerian, Nigerian and Tunisian Sahara). *Accademia Ligure di Scienze e Lettere, Genoa, Atti*. 36: 156-182.
- Corvinus, G. 1978. Paleontological and Archeological Investigations in the Lower Orange Valley from Arrisdrift to Obib. *Paleoecology of Africa*. 10: 75-92.
- Cotera, A.S. 1976. Grain Size Parameters of Eolian Deposits. *International Colloquium of Planetary Geology, Proceedings. Geologica Romana*. 15: 326-328.
- Cotera, A.S. and McCauley, C.K. 1977. Comparative Analysis of Fluvial Versus Aeolian Sources for Wind Deposits (abs). In Arvidson, R.E. and Wahmann (eds). *Eolian Processes, Reports of Planetary Geology Program*. NASA TMX-3511: 153-154.
- Coude-Gaussen, G., Riser, J. and Rognon, P. 1982. Tri Eolien et Evolution du Material Dunaire par Vannage et Fragmentation; l'Erg in Kaussamene, Nord-Mali. *Comptes Rendus des Seances de l'Academie des Sciences, Serie 2*. 296(4): 291-296.

- Coude-Gaussen, G., Rognon, P. and Weisrock, A.** 1982. Evolution du Materiel Sableux au Cours de son Deplacement dans un Systeme Dunaire; les Barkhanes du Cap Sim au Sud d'Essaouira, Maroc. *Comptes Rendus des Seances de l'Academie des Sciences, Serie 2.* 295(5): 621-624.
- Coude-Gaussen, G., Riser, J., Rognon, P. and Weisrock, A.** 1982. Le Materiel de Deux Edifice Dunaires Posterieurs au Dernier Pluvial, Nord du Mali et Sud-Ouest de Maroc. *Association de Geographies Francais, Bulletin.* 483-484: 47-51.
- Courbis, M.** 1890. Les Dunes et les Eaux Souterraines du Sahara. *Societe Geographique Francais, Comptes Rendus.*
- Coursin, A.** 1956. Etudes des Barkhanes a l'Est de Port Etienne. *TPOAF Report, Dakar.* 17 p.
- Coursin, A.** 1964. Observations et Experiences faites en Avril et Mai 1956, sur les Barkhanes du Souhel el Abiodh (Region est de Port Etienne). *Institut Francaise de l'Afrique Noire, Serie A, Bulletin.* 26(3): 989-1022.
- Cowles, H.C.** 1911. A Fifteen Year Study of Advancing Dunes. *Report of the British Association for the Advancement of Science.* 565.
- Cox, G.W. and Lawrence, W.T.** 1983. Cemented Horizon in Subarctic Alaskan Sand Dunes. *American Journal of Science.* 283(4): 369-373.
- Craig, R.G., Wolfe, R.W., Hoyt, B.K., Schmidt, M.S., Raymondi, M. and Kaufman, K.** 1980. Detection of Dune Areas Using the Autocorrelation Structure of Digital Imagery; Earth and Mars (abs). *Reports of Planetary Geology Program, NASA-TM-82385:* 319-321.
- Crema, C.** 1933. Risalti Crestiformi e "Seghife," due tipi Morfologici Proprii delle Regioni Aride Osservati in Libia. *International Geological Congress, 16th, Washington, Proceedings.* 2: 737-740.
- Criswell, D.R., Lindsay, J.F. and Reasoner, D.L.** 1975. Seismic and Accoustic Emissions of a Booming Dune. *Geophysical Research.* 80: 4963-4974.
- Crocker, R.L.** 1946. The Soil and Vegetation of the Simpson Desert and its Borders. *Royal Society of South Australia, Transactions.* 70: 235-258.
- Crommelin, R.D.** 1964. A Contribution to the Sedimentary Petrology and Provenance of Young Pleistocene Cover Sands in the Netherlands. *Geologie en Mijnbouw.* 43: 389-402.
- Crommelin, R.D.** 1965. Sediment-Petrologie en Herkomst van Jeng-Pleistocene Deksand in Nederland. *Boor en Spade.* 14: 138-150.
- Crosswhite, F.S. and Crosswhite, C.D.** 1982. The Sonora Desert. In Bender, G.L. (ed). *Reference Handbook of the Deserts of North America.* Westport, Connecticut: Greenwood Press. pp. 163-320.
- Crowe, R.W.A.** 1975. The Classification, Genesis and Evolution of Sand Dunes in the Great Sandy Desert. *Western Australian Geological Survey, Department of Mines, Annual Report.* pp. 86-89.
- Cui, B., Komar, P.D. and Baba, J.** 1983. Settling Velocities of Natural Sand Grains in Air. *Journal of Sedimentary Petrology.* 53(4): 1205-1211.
- Curtis, C.D.** 1983. Geochemistry and Grain Coatings of Qatar Dune Sands. Unpublished Report. *Qatar Ministry of Public Works.*
- Cutts, J.A. and Smith, R.S.U.** 1973. Eolian Deposits and Dunes on Mars. *Journal of Geophysical Research.* 78(20): 4139-4154.
- Cvijanovich, B.G.** 1953. Sur le Role des Dunes en Relation avec le Systeme Hydrologique de la Nappe Souterraine du Grand Erg. *Institut de Recherches Sahariennes, Travaux.* 9: 131-136.
- Czerny, F.** 1876-1877. Die Wirkung der Winde auf die Gestalt der Erde. *Petermanns Geographische Mitteilungen, Ergänzungsband 11.*
- Dalsgaard, K. and Jensen, J.L.** 1985. A methodological study of the sieving of small sand samples. In *Proceedings of International Workshop on the Physics of Blown Sand.* Department of Theoretical Statistics, University of Aarhus, Memoirs 8.
- Dalsgaard, K. and Sorensen, M.** 1985. A method of calibrating sieves. In *Proceedings of International Workshop on the Physics of Blown Sand.* Department of Theoretical Statistics, University of Aarhus, Memoirs 8.
- Dangaus, N.V.** 1979. Presencia de Dunas de Arcilla Fosiles an la Pampa Deprimida. (Fossil Clay Dunes in the Pampa Deprimada). *Association Geologica Argentina Revista.* 34(1): 31-35.

- Daniels, J.L. 1969. Sand Ridge Distribution in the Gibson and Great Victoria Deserts of Western Australia. *Western Australian Geological Survey, Department of Mines, Annual Report*. pp. 38-39.
- Dapples, E.C. 1941. Surficial Deposits of the Deserts of Syria, Trans-Jordan and Iraq. *Journal of Sedimentary Petrology*. 11: 124-141.
- Dare-Edwards, A.J. 1979. *Late Quaternary Soils on Clay Dunes of the Willandra Lakes of Western New South Wales*. Australian National University, Canberra. PhD Thesis.
- Dare-Edwards, A.J. 1982. Clay Pellets of Clay Dunes: Types, Mineralogy, Origin and Effect of Pedogenesis. In Wasson, R.J. (ed). *Quaternary Dust Mantles of China, New Zealand and Australia*. Proceedings of Workshop, Publication of the Department of Biogeography and Geomorphology, Australian National University, Canberra.
- Dare-Edwards, A.J. 1984. Aeolian Clay Deposits of South - Eastern Australia: Parna or Loessic Clay? *Transactions, Institute of British Geographers, New Series*. 9: 337-344.
- Daveau, S. 1965. Dune Ravines et Depots du Quaternaire Recent dans le Sahel Mauritanien. *Revue de Geographie de l'Afrique Occidentale*. 1-2: 7-47.
- David, P.P. 1971. The Boordale Road Section and its Significance in the Chronological Studies of Dune Activities in the Brandon Sand Hills of Manitoba. *Geological Association of Canada, Special Paper*. 9: 293-299.
- David, P.P. 1977(a). Dune Types and Their use in Interpreting Past Dune Environments in Canada (abs). *International Quaternary Association, Congress Abstracts*. p 103.
- David, P.P. 1977(b). *Sand Dune Occurrences in Canada*. Department of Indian and Northern Affairs, National Parks Board Report, Ottawa. 183 p.
- David, P.P. 1978. Why Dunes are Parabolic; the Wet-Sand Hypothesis (abs). *Geological Society of America, Abstracts Program*. 10(7): 385.
- David, P.P. 1979(a). Sand Dunes in Canada. *Geos. Spring*: 12- 14.
- David, P.P. 1979(b). Sand Dunes of the Cree Lake Region of Saskatchewan (abs). *Geological Association of Canada - Mineralogical Association of Canada, Joint Annual Meeting. Program Abstracts*. 4: 45.
- David, P.P. 1981. Stabilized Dune Ridges in Northern Saskatchewan. *Canadian Journal of Earth Science*. 18: 286-310.
- David, P.P. 1982. Sensitivity of the Parabolic Dune Environment to Short Term Climatic Fluctuations. In *Character and Timing of Rapid Environmental and Climatic Changes*. American Quaternary Association, National Conference Abstracts. 7: 85.
- Davies, J.L. 1983. L'Evolution du Relief Australien dans le Temps et dans l'Espace. *Espace Geographique*. 12(3): 195-201.
- Davis, C.K. and Neal, J.T. 1963. Descriptions and Airphoto Characteristics of Desert Landforms. *Photogrammetric Engineering*. 28: 621-631.
- Deacon, J., Lancaster, N. and Scott, L. 1984. Evidence for Late Quaternary Climatic Change in Southern Africa. In Vogel, J.C. (ed). *Late Cainozoic Palaeoclimates of the Southern Hemisphere*. Proceedings of the International Symposium held by the South African Society for Quaternary Research. Rotterdam: A.A. Balkema. pp. 391-406.
- Dean, L.E. 1978(a). *California Desert Sand Dunes*. University of California, Riverside, Earth Sciences Department. Unpublished Report.
- Dean, L.E. 1978(b). Eolian Sand Dunes of the Great Salt Lake Basin. *Utah Geologist*. 5: 103-111.
- De Dapper, M. 1979. The Microrelief of the Sandcovered Plateaux near Kalwezi, Shaba - Zaire. 1. The Microrelief of the Overall Dilunguy. *Geo-Eco-Trop*. 3(1): 1-18.
- De Dapper, M. 1981. The Microrelief of the Sandcovered Plateaux near Kolwezi, Shaba - Zaire. 2. The Microrelief of the Crest Dilunguy. *Geo-Eco-Trop*. 5(1): 1-12.
- Demangeot, J. 1972. *Les Milieux Naturels Desertiques: Cours de Geographie Physique*. Centre de Documentation Universitaire, SEDES, Paris. 300 pp.
- Demin, A.G. 1973. Rol' Eolovykh Protsessov v Formirovanii Rel'yefa Poymy, na Primere Doliny Nizhnego Charysha. (Role of Eolian Processes in the Formation of the Relief of a Floodplain with the Nizhnyy Charysh Valley as an Example). *Moscow Universitet, Vestnik Seriya Geografii*. 28(6): 106-108.
- Demin, A.G. 1974. Rol'nival'nykh i Zimnikh Eolovykh Protsessov v Formirovanii Rel'yefa Predaltayskoy Ravniny. (Role of Nival and Winter-Born Processes in the Formation of the Predaltayskaya Plain Relief). *Materialy Glyatsiologicheskikh Issledovaniy, Khronika Obsuzhdeniya*. 24: 231-233.

- Denny, C.S. and Owens, J.P. 1979. Sand Dunes on the Central Delmarva Peninsula, Maryland and Delaware. *United States Geological Survey, Professional Paper* 1067-C. 15 p.
- Devillers, C. 1948. Les Depots Quaternaires de l'Erg Tihodaine (Sahara Central). *Societe Geologique de France, Bulletin, Serie 5, Vol. 18. Compte Rendu Sommaire*. 10: 189-191.
- Dewers, F. 1935. Probleme der Fulsandbildung in Nordwestdeutschland. *Naturwissenschaftlicher Verein, Bremen, Abhandlungen*. 29(3-4): 324-366.
- Dieren, J.W. van. 1934. Organogene Dunenbildung. Eine Geomorphologische Analyse der Dunenlandschaft der West-Friesischen Insel Terschelling mit Pflanzensoziologischen Methoden. Haag. 304 p.
- Dineen, R.J., Rogers, W.B. and Buyce, M.R. 1978. Paleowind, Age and Climate of Late Pleistocene Sand Dunes in Albany and Schenectady Counties, New York. *Geological Society of America, Abstracts Program*. 1097: 390.
- Dionne, J.C. 1978. *Dunes et Depots Eoliens en Jamesie et Hudsonie, Quebec Subarctique*. Environment-Canada, Rapport d'Information Quebec. 35 p.
- Dobrolowski, A.B. 1924. Movement de l'Air et de l'Eau sur les Accidents du Sol. *Geografiska Annaler*. 6: 300-367.
- Do Amaral, I. 1982. Paisagens Morfológicas do Deserto de Mocamedes, Angola, Entre os Rios Curoca e Cunene; 2. a Parte: Processos Eólicos. (Landscape Morphology of the Mocamedes Desert, Angola, between the Curaca and Cumene Rivers; Part 2. Eolian Processes). *Garcia de Orta, Serie Geografie*. 7(1-2): 1-34.
- Dohrenwend, J.C., McFadden, L.D. and Wells, S.G. 1984. Quaternary Geology of the Eastern Mojave Desert, California, Field Trip 14. In Lintz, J. (ed). *Western Geological Excursions, Vol 1*. University of Nevada at Reno, Department of Geological Science. pp. 101-251.
- Dokka, R.K. 1978. A Method of Determining the Direction of Strong Winds; Northwestern Coachella Valley, California. *Association of Engineering Geologists, Bulletin*. 15(4): 375-381.
- Donahue, J.J. 1977. Late Wisconsinian Eolian Activity near Albany, New York. *Geological Society of America, Bulletin*. 88(12): 1756-1762.
- Doornkamp, J.C., Brunsden, D. and Jones, D.K.C. (eds) 1980. Geology, geomorphology and pedology of Bahrain. Edited on behalf of the members of the Bahrain Surface Materials Resources Survey, Norwich. *University of East Anglia, Geo Abstracts Ltd*. 443 p.
- Dorize, L. 1974. L'Oscillation Pluviometrique Recente sur le Bassin du Lac Tchad et la Circulation Atmospherique Generale. *Revue Geographie Physique et Geologie Dynamique*. 16(4): 393-419.
- Dorn, R. 1986. Rock varnish as an indicator of aeolian environmental change. In Nickling, W. G. (ed). *Aeolian Geomorphology*. Proceedings of the 17th Annual Binghamton Geomorphology Symposium, September 1986. pp. 291-308.
- Dort, W. Jr. 1959. Sand Dunes of Northeastern Snake River Plain, Idaho (abs). *Geological Society of American, Bulletin*. 69: 1555.
- Doskatch, A.G. 1948. Les Etapes Fondamentales du Developpement des Idees sur le Relief des Deserts Sableux. *Academie des Sciences de l'URSS, Institut Geographique, Travaux*. 39: 233.
- Doubiansky, V.A. 1928. The Sand Deserts of the South-East Karakum. *Bulletin of Applied Botany, Genetics and Plant Breeding*. 19(4): 225-.
- Douglass, A.E. 1909. The Crescentic Dunes of Peru. *Appalachia*. 12: 34-35.
- Dougremiji, J. and Kaul, R.N. 1972. Sand Dune Reclamation in Iraq - Present Status and Future Prospects. *Annals of Arid Zone*. 11(3-4): 133-144.
- Dregne, H.E. 1984. North American Deserts. In El-Baz, F. (ed). *Deserts and Arid Lands*. The Hague: Martinus Nijhoff Publishers. pp 145-156.
- Dresch, J. 1961. Observations sur le Desert Cotier du Perou. *Annales de Geographie*. 70: 179-184.
- Dresch, J. and Rougerie, G. 1960. Morphological Observations in the Sahel of the Niger. *Revue de Geomorphologie Dynamique*. 11: 49-58.
- Dubief, J. 1943. Les Vents de Sable dans le Sahara Francais. *Institut de Recherches Sahariennes, Travaux*. 2: 11-35.
- Dubief, J. 1952. Le Vent et le Deplacement du Sable au Sahara. *Institut de Recherches Sahariennes, Travaux*. 8: 123-164.
- Dubief, J. 1953. Les Vents de Sable dans le Sahara Francais. In *Actions Eoliennes*. Centre National de Recherches Scientifiques, Paris, Colloques Internationaux. 35: 45-70.

- Duchemin, G.J. 1958. Essai sur la Protection des Constructions contre l'Enselement a Port-Etienne (Mauritanie). *Institut Francais d'Afrique Noire, Bulletin, Serie A.* 20: 675-686.
- Dufour, A. 1936. Observations sur les Dunes de Sahara Meridional. *Annales de Geographie.* 45: 276-285.
- Dumont, H.J. 1978. Neolithic Hyperarid Period Preceding the Present Climate of the Central Sahel. *Nature.* 274: 356-358.
- Durand, A. 1953. Le Vent et sa Consequence: l'Erosion Eolienne, Facteur de Formation des Sols au Sahara. In *Desert Research, Proceedings International Symposium, Jerusalem.* Research Council of Israel, Special Publication. 2: 434-437.
- Durand, A. 1980. Cordons Dunaires Perilacustres et Oscillations de Lac Tchad au Quaternaire Recent (abs). *Resumes du 26ieme Congress Geologique International, Paris.* p. 650.
- Durand, A., Fontes, J.C., Gasse, F., Icole, M. and Lang, J. 1984. Le Nord-Ouest du Lac Tchad au Quaternaire; Etude de Paleoenvironments Alluviaux, Eoliens, Palustres et Lacustres. *Palaeoecology of Africa.* 16: 215-243.
- Durotoye, B. 1983. Geomorphology and Quaternary Deposits of Nigeria. In Ola, S.A. (ed). *Tropical Soils of Nigeria in Engineering Practice.* Amsterdam: A.A. Balkema. pp. 1-16.
- Dutton, R. (ed). 1986. *Oman Wahiba Sands Project 1985/1986, Rapid Assessment Document.* Royal Geographical Society, London.
- Dylik, J. 1969. L'Action du Vent Pendant le Dernier Age Froid sur le Territoire de la Pologne Centrale. Symposium sur l'Action du Vent et la Formation du Loess en Milieu Periglaciaire Wurmien. *Biuletyn Peryglacjalny.* 20: 29-44.
- Dylikowa, A. 1958. Phase du Development des Dunes aux Environs de Lodz. *Acta Geographica Univiersitatis Lodziensis.* 8: 233-268.
- Dylikowa, A. 1964. Les Dunes de Pologne Centrale et leur Importance pour la Stratigraphie du Pleistocene Tardif. *International Congress on Quaternary, 6th, Warsaw, Report.* 4: 67-80.
- Dylikowa, A. 1968. Fazy Rozwoju w Srodkowej Polsce w Schylkowym Plejstocenie. (Development of Dunes During the Late Pleistocene in Poland). *Folia Quaternaria.* 29: 119-126.
- Dylikowa, A. 1969(a). Problematyka Wydm Srodladowych w Polsce w Swietle Dadan Strukturalnych. (Inland Dunes in Poland and their Structure). in Galon, R. (ed). *Procesy i Formy Wydmowe w Polsce.* Polska Akademia Nauk, Instytut Geografii, Prace Geograficzne, Warsaw. 75: 39-74.
- Dylikowa, A. 1969(b). Le Probleme des Dunes Interieures en Pologne a la Lumiere des Etudes de Structures. In Symposium sur l'Action du Vent et la Formation du Loess en Milieu Periglaciaire Wurmien Wroclaw. *Biuletyn Peryglacjalny.* 20: 45-80.
- Eardley, A.J. 1962. Gypsum Dunes and Evaporite History of the Great Salt Lake Desert. Utah Geological and Mineralogical Survey, Special Studies 2. 27 p.
- Earl, P.I. 1981. Sand Mountain; Dune of Mystery. *California Mining Journal.* 51(3): 67-68.
- Edmonds, J.M. 1942. The Distribution of the Kordofan Sand. *Geological Magazine.* 79: 18-30.
- El-Baz, F. 1976. Terrestrial Sand Patterns Photographed by the Apollo-Soyuz Mission and Similar Features on Mars (abs). *Lunar Science.* 7: 236.
- El-Baz, F. 1978(a). The Meaning of Desert Colour in Earth Orbital Photographs. *Photogrammetric Engineering and Remote Sensing.* 44: 71-75.
- El-Baz, F. 1978(b). Analogs of Martian Eolian Features in Southwestern Egypt. *Meeting of the Committee on Space Research.* Innsbruck, Austria.
- El-Baz, F. 1979(a). Monitoring the Desert Environment from Space. In Bishay, A. and McGinnes, W.G. (eds). *Advances in Desert and Arid Land Technology and Development, Vol. 1.* New York: Harwood Academic Publishers. pp. 383-398.
- El-Baz, F. 1979(b). *Egypt as Seen by Landsat.* Ain Shams University, Cairo. 160 p.
- El-Baz, F. 1979(c). Wind Erosion in Egypt's Uweinat Mountain and Implications to Eolian Processes on Mars (abs). *Second International Colloquium on Mars.* NASA Conference Publication. CP-2072: 26.
- El-Baz, F. 1980. Quaternary Climatic Changes and the Formations of the Eastern Sahara (abs). *Resumes du 26ieme Congress Geologique International, Paris.* p. 651.
- El-Baz, F. 1981. *Analogs of Martian Eolian Features in Southwestern Egypt.* National Air and Space Museum, Smithsonian Institute, Washington, D.C. 7 p.

- El-Baz, F. (ed). 1984(a). *Deserts and Arid Lands*. The Hague: Martinus Nijhoff Publishers, 222 p.
- El-Baz, F. 1984(b). The Desert in the Space Age. In El-Baz, F. (ed). *Deserts and Arid Lands*. The Hague: Martinus Nijhoff Publishers. pp 1-29.
- El-Baz, F. and Hassan, M.H.A. (eds). 1986(a). *The Physics of Desertification*. Nijhoff, Dordrecht.
- El-Baz, F. and Hassan, M.H.A. 1986(b). On the reddening of quartz grains in dune sand. In El-Baz, F. and Hassan, M.H.A. (eds). *Physics of Desertification*. Nijhoff, Dordrecht. p 191-209.
- El-Baz, F. and Hassan, M.H.A. 1986(c). The formation and motion of dunes and sand seas. In El-Baz, F. and Hassan, M.H.A. (eds). *Physics of Desertification*. Nijhoff, Dordrecht. p 70-93.
- El-Baz, F. and Maxwell, T.A. (eds). 1982. *Desert Landforms of Southwest Egypt: a Basis for Comparison with Mars*. NASA Contractor Report CR-3611, Washington, D.C. 372 p.
- El-Baz, F. and Wolfe, R.W. 1982. Wind Patterns in the Western Desert. *Desert Landforms of Southwest Egypt: A Basis for Comparison with Mars*. NASA Conference Publication. CP-3611: 119-140.
- El-Baz, F., Breed, C.S., Grolier, M.J. and McCauley, J.F. 1979. Eolian Features in the Western Desert of Egypt and Some Applications to Mars. *Journal of Geophysical Research*. 84(B14): 8205-8221.
- El Dun, I.O.A. 1969. The Qoz: A Geographical Analysis of Sandy Western Sudan (abs). *Dissertation Abstracts*. 29(8): 2935B.
- El-Sherbiny, S. and Bofah, K.K. 1982. Measurements of the Flow Field Over an Eolian Sand Dune. *Arabian Journal for Science and Engineering*. 7(3): 253-260.
- Ellwood, B.B. and Howard, J.H. 1981. Magnetic Fabric Development in an Experimentally Produced Barchan Dune. *Journal of Sedimentary Petrology*. 51: 97-100.
- Ellwood, J.M., Evans, P.D. and Wilson, I.G. 1975. Small Scale Eolian Bedforms. *Journal of Sedimentary Petrology*. 45: 554-561.
- Elston, D.P. 1984. Rocks, Landforms and Landscape Development in Central Arizona. In Smiley, T.L., Nations, J.D., Pewe, T.L. and Schafer, J.P. (eds). *Landscapes of Arizona, the Geological Story*. Lanham, Maryland: University Press of America, 505 p.
- Eltayeb, I.A. and Hassan, M.H.A. 1981. On the Non-Linear Evolution of Sand Dunes. *Geophysical Journal of the Royal Astronomical Society*. 65: 31-45.
- Eltayeb, I.A. and Hassan, M.H.A. 1986. The stability and propagation of sand ripples and dunes. In El-Baz, F. and Hassan, M.H.A. (ed) *Physics of Desertification*. Nijhoff, Dordrecht. p 398-434.
- Embabi, N.S. 1967. *A Morphological Study of the Kharga Oasis Depression, the Western Desert Egypt*. University of Bristol, PhD Thesis. 326 p.
- Embabi, N.S. 1970-1971. Structures of Barchan Dunes at The Kharga Oasis Depression, the Western Desert, Egypt and a Comparison with Structures of Two Aeolian Micro-Forms from Saudi Arabia. *Bulletin de la Societe de Geographie d'Egypte*. 43-44: 53-71.
- Embabi, N.S. 1978. Statistical Relationship Between Barchan Shape Dimensions. *Egyptian Computer Science Journal*. 1(2): 29-51.
- Embabi, N.S. 1979. Barchan Dune Movement and its Effect on Economic Development at the Kharga Oases Depression (in Arabic). *Journal of the Middle East*. The Middle East Research Centre, Ain Shams University, Cairo. 6: 1-20.
- Embabi, N.S. 1982. Barchans of the Kharga Depression. In El-Baz, F and Maxwell, T.A. (eds). *Desert Landforms of Southwest Egypt: A Basis for Comparison with Mars*. NASA CR-3611: 141-155.
- Embabi, N.S. and Ashour, M.M. 1983. *Sand Dunes in the Qatar Peninsula, Vol. 1* (in Arabic). University of Qatar, Doha. 244 p.
- Emery, K.O. 1954. Some Characteristics of Southern California Sediments. *Journal of Sedimentary Petrology*. 24(1): 50-59.
- Enock, C.R. 1908. Surface Forms in Western South America. *Geographical Journal*. 31: 684.
- Enquist, F. and Frederick, E. 1932. The Relation between Dune Form and Wind Direction. *Geologiska Foreningens i Stockholm Fohandlingar*. 54(388): 19-59.

- Eriksson, P.G. 1978. An Investigation of Quaternary Aeolian-Lacustrine Sediments in Namaqualand. *Paleoecology of Africa*. 10: 41-46.
- Erinc, S. 1962. On the Relief Features of Blown Sand at the Karapinar Surroundings in the Interior Anatolia. *University of Istanbul, Geographical Institute, Review*. 8: 113-130.
- Escande, L. 1949. Ondulations de Sable des Modeles Reduits et Dunes de Desert. *Academie des Sciences, Paris, Compte Rendu*. 229(13): 613-615.
- Escande, L. 1953. Similitude des Ondulations de Sable des Modeles Reduits et des Dunes du Desert. In *Actions Eoliennes*. Centre National de Recherches Scientifiques, Paris, Colloques Internationaux. 35: 71-.
- Evans, G.C. 1963. Geology and Sedimentation along the Lower Rio Salado in New Mexico (Summary). *New Mexico Geological Society, Guidebook to the Socorro Region*. pp. 209-216.
- Evans, G.L. and Meade, G.E. 1945. Quaternary of the Texas High Plains. *University of Texas Publication*. 4401: 485-502.
- Evans, J.R. 1962. Falling and Climbing Sand-dunes in the Cronese ("Cat") Mountain Area, San Bernadino County, California. *Journal of Geology*. 70: 107-113.
- Evans, O.F. 1944. Some Structural Differences between Wind-Laid and Water-Laid Deposits on the West Shore of Lake Michigan. *Journal of Sedimentary Petrology*. 14: 94-96.
- Evenari, M., Noy-Meir, I. and Goodall, D. (eds) 1985. *Hot Deserts and Arid Shrubland. Ecosystems of the World*. Elsevier, Amsterdam. 365 p.
- Everard, C.E. 1964. Playas and Dunes in the Estancia Basin, New Mexico (abs). *International Geographical Congress, 20th, London, Abstracts of Papers*. pp. 89-90.
- Everett, J.R., Russell, O.R. and Nichols, D.A. 1984. Landsat Surveys of Southeastern Arabia. In El-Baz, F. (ed) *Deserts and Arid Lands*. the Hague: Martinus Nijhoff Publishers. pp. 95-113.
- Exner, F.M. 1920. Zur Physik der Dunen. *Akademie der Wissenschaften, Wien, Mathematisch-Naturwissenschaftliche Klasse, Abteilung I*. 129(9-10): 929-952.
- Exner, F.M. 1921. Dunen und Maander, Wellenformen der Festen Erdoberfläche, deren Wachstum und Bewegung. *Geografiska Annaler*. 3: 327-335.
- Exner, F.M. 1927. Über Dunen und Sandwellen. *Geografiska Annaler*. 9: 81-89.
- Eymann, J.R. 1953. *A Study of Sand-Dunes in the Colorado and Mojave Deserts*. University of California, MSc Thesis.
- Falconer, J.D. 1911. *The Geography and Geology of Northern Nigeria*. London: Macmillan, 295 p.
- Faure, H. 1966. Reconnaissance Geologique des Formations Sedimentaires Post-Paleozoiques du Niger Oriental. *These, Faculte des Sciences, Paris, Soutenue en 1962, Editions du BRGM, Memoire No. 47*. 630 p.
- Fedorovich, B.A. 1940. Some Fundamental Considerations Concerning the Origin and Development of the Sand Relief (in Russian). *Academy of the Sciences of the USSR, Bulletin, Geography and Geophysics Series*. 6: 885-910.
- Fedorovich, B.A. 1948 (a). La Question de l'Origine et la Morphogenese du Relief Sableux des Deserts. *Akademiia Nauk SSSR, Institut Geografii, Vestnik*. 39: 160-183.
- Fedorovich, B.A. 1948 (b). Le Relief des Sables d'Asie en tant qu'Image de la Circulation Atmospherique. *Problemy Fizicheskoi Geografii*. 13: 91-109.
- Fedorovich, B.A. 1956. L'Origine du Relief des Deserts de Sables Actuels. In *Essais de Geographie*. Leningrad et Moscou. pp. 117-129.
- Fedorovich, B.A. 1963. Les Types Dynamiques du Relief des Sables Comme Fondement Scientifique de la Lutte Contre les Sables. *Societe Hellenique de Geographie, Bulletin*. 4: 162-171.
- Fedorovich, B.A. 1970(a). Intensivnost' Sovremennykh Eolovykh Protessov v Pustynyakh SSSR. (Intensity of Present Day Eolian Processes in the Deserts of the USSR). In *Sovremennyye Ekzogennyye Protessy Rel'yefoobrazovaniya*. (Materialy VII Plenuma Geomorfologicheskoy Komissii an SSSR) Izd. Nauk, Moscow. pp. 149-159.
- Fedorovich, B.A. 1970(b). Osnovnyye Zakonomernosti Eolovogo Rel'yefoobrazovaniya v Peschanykh Pustynyakh. (Principal Eolian Processes Controlling Relief Development in Sand Deserts). *Akademiya Nauk SSSR, Izvestiya Seriya Geograficheskaya*. 1: 9-16.
- Fedorovich, B.A. 1974. Rabota Vetra. (Wind Action). In *Obshchaya Geologiya: Ekzogennyye Protessy*. Izd. Prosveshcheniye, Moscow. pp. 100-113.

- Felice, P. de.** 1956. Processus du Soulevement des Grains de Sable par le Vent. *Academie des Sciences, Paris, Comptes Rendus.* 242: 920-923.
- Felix-Henningsen, P.** 1984. Zur Relief und Bodenentwicklung der Gros - Zone Nordkordofans im Suduan. *Zeitschrift fur Geomorphologie.* 28(3): 285-303.
- Fernald, A.T.** 1964. Surficial Geology of the Kobuk River Valley, Alaska. *United States Geological Survey, Bulletin.* 1181-K. 31 p.
- Fillion, L. and Morisset, P.** 1980. Eolian Landscapes along the Eastern Coast of Hudson, Bay, Northern Quebec. *Nordicana.* 47: 73-94.
- Finkel, H.J.** 1959. The Barchans of Southern Peru. *Journal of Geology.* 67: 614-647.
- Finkel, H.J.** 1961. The Movement of Barchan Dunes Measured by Aerial Photogrammetry. *Photogrammetric Engineering.* 27: 439-444.
- Firman, J.B.** 1982. Regional Stratigraphy of Australian Dune Fields. In Wasson, R.J. (ed). *Quaternary Dust Mantles of China, New Zealand and Australia.* Proceedings of Workshop, Publication of the Department of Biogeography and Geomorphology, Australian National University, Canberra. pp. 201-210.
- Flamand, G.B.M.** 1899. La Traversee de l'Erg Occidental (Grand Dunes de Sahara Oranais). *Annales de Geographie.* 9: 231-241.
- Flamand, G.B.M.** 1919. *Recherches Geologiques et Geographiques sur le "Haut Pays" de l'Oranie et sur le Sahara (Algerie et Territoires du Sud).* Lyons.
- Flenley, E.C.** 1985. Use of mixture distributions in the modelling of sand particle sizes. In *Proceedings of International Workshop on the Physics of Blown Sand.* Department of Theoretical Statistics, University of Aarhus Memoirs 8.
- Flint, R.F.** 1959. Pleistocene Climates in Eastern and Southern Africa. *Geological Society of America, Bulletin.* 70: 343-371.
- Flint, R.F.** 1976. Physical Evidence of Quaternary Climatic Change. *Quaternary Research.* 6: 519-528.
- Flint, R.F. and Bond, G.** 1968. Pleistocene Sand Ridges and Pans in West Rhodesia. *Geological Society of America, Bulletin.* 79: 299-314.
- Florek, W.** 1975. Cechy Granulometryczne Osadow Budujacych Wydme Przygodzicka we Wschodniej Czesci Kotliny Odolanowskiej. (Granulometric Characteristics of Sediments Building the Przygodzice Dune in the East Part of Odolanow Basin). *Badanie Fizjograficzne nad Polska Zachodnia Serie A, Geografia Fizyczna.* 28: 75-94.
- Florek, W.** 1980. Struktura i Uziarnienie Osadow Budujacych Wydmy: Trzcielinska i Przygodzicka we Wschodniej Czesci kotliny Odolanowskiej. (Inner Structure and Granulation of Deposits Forming Trzcielina and Przygodzice Dunes in the Eastern Part of the Odolanow Basin). In Kurlinski, A. *et al* (eds). *Prace i Studia Geograficzne Tom. 2,* Warsaw University Press. pp. 125-144.
- Floyer, E.A.** 1897. Notes on Mr. V. Cornish's Paper on Sand Dunes. *Geographical Journal.* 11: 559-563.
- Folk, R.L.** 1962. Of Skewness and Sands. *Journal of Sedimentary Petrology.* 32: 145-146.
- Folk, R.L.** 1968. Bimodal Supermature Sandstones: Product of Desert Floor. *Twenty-third International Geological Congress, Vol. 8: Genesis and Classification of Sedimentary Rock.* pp. 9-32.
- Folk, R.L.** 1969. Grain Shape and Diagenesis in the Simpson Desert, Northern Territory, Australia (abs). *Geological Society of America, Abstracts Program.* 7: 68-69.
- Folk, R.L.** 1970. Longitudinal Dunes of the Northwestern Edge of the Simpson Desert, Northern Territory, Australia. 1. Geomorphology and Grain Size Relationships. *Sedimentology.* 16: 5-54.
- Folk, R.L.** 1971. Genesis of Longitudinal and Oghurd Dunes Elucidated by Rolling upon Grease. *Geological Society of America, Bulletin.* 82: 3461-3468.
- Folk, R.L.** 1976(a). Rollers and Ripples in Sand Streams and Sky: Rhythmic Alteration of Transverse and Longitudinal Vortices in Three Orders. *Sedimentology.* 23: 649-669.
- Folk, R.L.** 1976(b). Reddening of Desert Sands: Simpson Desert, Northern Territory, Australia. *Journal of Sedimentary Petrology.* 46(3): 604-615.
- Folk, R.L.** 1978. Angularity and Silica Coatings of Simpson Desert Sand Grains, Northern Territory, Australia. *Journal of Sedimentary Petrology.* 48: 611-624.
- Ford, E.F.** 1957. The Transport of Sand by Wind. *American Geophysical Union, Transactions.* 38: 171-174.

- Forth de Lancey, N.B. 1930. More Journeys in Search of Zerzura. *Geographical Journal*. 75: 49-64.
- Fowler, D. and Koch, D. 1982. The Great Basin. In Bender, G.L. (ed). *Reference Handbook of the Deserts of North America*. Westport, Connecticut: Greenwood Press. pp 7-66.
- Franzmeier, D.P. 1970. Particle Size Sorting of Proglacial Eolian Material. *Soil Science Society of America, Proceedings*. 34(6): 920-924.
- Friedman, G.M. 1961. Distinction between Dune, Beach and River Sands from their Textural Characteristics. *Journal of Sedimentary Petrology*. 31: 514-529.
- Friedman, G.M. 1973. Textural Parameters of Sands - Useful or Useless? *Geological Society of America, Abstracts Program*. 5: 626-627.
- Friedman, G.M. 1979. Differences in Size Distributions of Populations of Particles Among Sands of Various Origins. *Sedimentology*. 26: 3-32.
- Fristrup, B. 1952. High Arctic Deserts. *Comptes Rendus, Congres Geologique International, 19th, Alger*. 7(7): 91-99.
- Fryberger, S.G. 1978. Techniques for the Evaluation of Surface Wind Data in Terms of Eolian Sand Drift. *United States Geological Survey, Open File Report*. 78-405.
- Fryberger, S.G. 1979. Dune Forms and Wind Regime. in McKee, E.D. (ed). *A Study of Global Sand Seas*. United States Geological Survey, Professional Paper 1052: 137-140.
- Fryberger, S.G. 1980. Dune Forms and Wind Regime, Mauritania, West Africa; Implications for Past Climate. *Paleoecology of Africa*. 12: 79-96.
- Fryberger, S.G. and Ahlbrandt, T.S. 1979. Mechanisms for the Formation of Eolian - Sand Seas. *Zeitschrift fur Geomorphologie*. 23: 440-460.
- Fryberger, S.G., Ahlbrandt, T.S. and Andrews, S. 1979. Origin, Sedimentary Features and Significance of Low Angle Eolian "Sand Sheet" Deposits, Great Sand Dunes National Monument and Vicinity, Colorado. *Journal of Sedimentary Petrology*. 49: 733-746.
- Fryberger, S.G. and Goudie, A.S. 1981. Progress Report: Arid Geomorphology. *Progress in Physical Geography*. 5: 409-428.
- Fryberger, S.G. and Schenk, C. 1981. Wind Sedimentation Tunnel Experiments on the Origins of Aeolian Strata. *Sedimentology*. 28: 805-821.
- Fryberger, S., Al-Sari, A. and Clisham, T. 1983. Eolian Dune, Interdune, Sand Sheet and Siliclastic Sabkha Sediments of an Offshore Prograding Sand Sea, Dhahran Area, Saudi Arabia. *American Association of Petroleum Geologists, Bulletin*. 67(2): 280-312.
- Fryberger, S.G., Al-Sari, A.M., Clisham, T.J., Rizoi, S.A.R. and Al-Hinai, K.G. 1984. Wind Sedimentation in the Jafrah Sand Sea, Saudi Arabia. *Sedimentology*. 31: 413-431.
- Fujita, T. 1967. Note on Sand Dunes. *United States Army Corps of Engineers, NASA Earth Resources Survey from Spacecraft, Vol. 2, Appendix 1*.
- Fulfaro, V.J. and Torquato, J.R. 1975. Consideracoes Sobre o Cenozoico de Angola, Africa. (The Cenozoic of Angola, Africa). *Instituto de Geociencias, Boletim, Universidade de Sao Paula*. 6: 85-93.
- Fuller, M.L. 1899. Season and Time Elements in Sand Plain Formation. *Journal of Geology*. 7: 452-462.
- Furst, M. 1965. Hammada-Serir-Erg. *Zeitschrift fur Geomorphologie*. 9(4): 385-421.
- Gabriel, A. 1938. The Southern Lut and Iranian Baluchistan. *Geographical Journal*. 92: 195-210.
- Gabriel, A. 1957. Zur Oberflachengestaltung der Pfannen in Trockenraumen Zentralpersiens. *Geographische Gesellschaft, Wien, Mitteilugun*. 99(2-3): 146-160.
- Gabriel, A. 1965. Die Auswirkung Vertikaler Luftstromungen und Elektrischer Spannungsfelder in Kahlen Sanden. Neue Gedanken zur Dunemorphologie als Diskussionsarbeitrag. *Oesterreichische Geographische Gesellschaft, Mitteilungen*. 107(3): 125-137.
- Gabriel, B. 1979. Ur und Gruhgeschichte als Hilfswissenschaft der Geomorphologie im Ariden Nordafrika. In Borchardt, C et al (eds). *Feschrift fuer Wolfgang Meckelein*. Stuttgarter Geographische Studien. 93: 135-148.
- Gabriel, B. 1982. Die Sahara im Quater; Klima, Landschafts und Kulturentwicklung. *Geographische Rundschau*. 34(6): 262-268.

- Gad-el-Hak, M., Howard, A.D., Morton, J.B. and Pierce, D. 1975. *Interpretation of Surface Features and Surface Processes on Mars*. Research Laboratories for the Engineering Sciences, University of Virginia, Charlottesville. 39 p.
- Gad-el-Hak, M., Pierce, D., Howard, A. and Martin, J.B. 1976. *The Interaction of Unidirectional Winds with an Isolated Barchan Sand Dune*. School of Engineering and Applied Science, University of Virginia, Charlottesville. UVA/528035/ESS76/102, 109 p.
- Gagliano, S.M. 1970. Eolian Sand Sheets of Peruvian Coastal Desert (abs). *American Association of Petroleum Geologists, Bulletin*. 54(5): 847-848.
- Galloway, J.J. 1922. Value of the Physical Characteristics of Sand Grains in Interpreting the Origin of Sandstones (abs). *Geological Society of America, Bulletin*. 33: 104-105.
- Galloway, J.P. 1982. Grain-Size Analysis of Twenty Eolian Sand Samples from Northern Alaska. In *United States Geological Survey in Alaska, Accomplishments during 1980*. Geological Survey Circular 0844: 51-53.
- Galloway, J.P., Koster, E.A., Hamilton, T.D. and Cox, G.W. 1985. Cemented Horizon in Subarctic Alaskan Sand Dunes: Discussion and Reply. *American Journal of Science*. 285(2): 186-191.
- Galon, R. 1958. Sur les Dunes Continentales en Pologne (in Polish). In Galon, R. (ed). *Wydmu Srodladowe Polski*. PWN, Warszawa. pp. 13-30.
- Galon, R. 1959. New Investigations of Inland Dunes in Poland. *Przegląd Geograficzny, Supplement*. 31: 93-110.
- Galon, R. (ed). 1969(a). *Procesy i Formy Wydmowe w Polsce*. (Dune Processes and Forms in Poland). Polska Akademia Nauk, Instytut Geografii, Prace Geograficzne, Warsaw. No. 75, 386 p.
- Galon, R. 1969(b). O Aktualnij Problematyce Dotyczącej Wydm Srodladowych w Polsce. (Problems of Inland Dunes in Poland). In Galon, R. (ed). *Procesy i Formy Wydmowe w Polsce*. Polska Akademia Nauk, Instytut Geografii, Prace Geograficzne, Warsaw. 75: 11-17.
- Gao Zhaoshan. 1985. The main character and genesis of the Chifeng desert, Chifeng District. (in Chinese) *Journal of Changolun College of Geology*. 3:41. 57-62.
- Gardner, R. 1981. Reddening of Dune Sands - Evidence from Southeast India. *Earth-Surface Processes and Landforms*. 6: 459-468.
- Gardner, R. 1983. *Tropical Dune Reddening*. Geological Society of London, Special Publication.
- Gardner, R. and Pye, K. 1981. Nature, Origin and Paleoenvironmental Significance of Red Coastal and Desert Dune Sands. *Progress in Physical Geography*. 5: 514-534.
- Gardziel, Z. 1979. Utwory Wydmowe Polnocnego Przedpola Wyzyny Lubelskiej. (Dune Formation of Northern Foreland of the Lublin Upland). *Annals Universitatis Mariae Curie - Sklodowski, Sectio B*. 34: 123-142.
- Garelik, I.S., Gorodetskaya, M.Ye., Kozlova, A.Ye. and Fadeyeva, N.V. 1976. Comparative Informativeness of Multizonal Photographs in Study of Relief and Landscapes in Semi-Desert and Dry Desert; a Case Study of the Turgay Site. In Zonn, S.V. (ed). *Issledovaniye Prirodnoy Sredy Kosmicheskimi Sredstvami: Geobotanika, Geomorfologiya, Pochvovedeniye, Sel'skokhozyaystvennyye Ugod'ya, Landshaftovedeniye; Doklady Sovetskikh Uchenykh na Soveshchanii Spetsialistov Sotsialisticheskikh Stran po Distantionnomu Zondirovaniyu Zemli s Pomoshchyu Aerokosmicheskikh Sredstv*. Moscow: Viniti. pp. 85-97.
- Garrett, D.M. 1966. *Geology of the Saratoga Springs Sand Dunes, Death Valley National Monument, California*. University of Southern California, MSc Thesis.
- Gauymond, M. 1962. *Les Dunes Paraboliques de la Plaine du Saint - Laurent*. University du Laval, Quebec. MSc Thesis. 113 p.
- Gautier, E.F. 1935. *The Sahara, the Great Desert*. New York.
- Gawlik, H. 1969. Wydmu w Kotlinie Szczercowskiej. (Eolian Dunes in the Szczercow Basin). In Galon, R. (ed). *Procesy i Formy Wydmowe w Polsce*. Polska Akademia Nauk, Instytut Geografii, Prace Geograficzne, Warsaw. 75: 249-287.
- Gay, P., Jr. 1962. Origen, Distribucion y Movimiento de las Arenas Eolicas en el Area de Yauca a Palpa. *Sociedad Geologica del Peru, Boletin*. 37: 37-58.
- Gayell, A.G. and Trishkovskiy, A.A. 1962. Soil Age and Classification of Eolian Sands of the Steppe Zone. *Akademiia Nauk SSSR, Izvestiya, Seriya Geograficheskaya*. 3: 28-.

- Gaylord, R.D. 1979. Holocene Climatic Changes Recorded in the Ferris Dune Field, Southern Wyoming (abs). *Geologic Society of America, Abstracts Program*. 11(6): 263.
- Gaylord, R.D. 1982. Geologic History of the Ferris Dune Field, South-Central Wyoming. *Geological Society of America, Special Paper* 192: 65-82.
- Geld'dyyeva, G.V. and Budnikova, T.I. 1985. Eolovyye protsessy na perivichnykh morskikh ravinakh Priral'ya. (Eolian processes on the primary marine plains of the Aral region). *Izvestiya Akademicheskoy SSR Seriya Geograficheskaya* 1985(T): 87-91.
- Geresimov, I.P. 1933. Recent Geological Processes in the Deserts of Western Turkestan (abs). *International Geological Congress, 16th, Washington*. 2: 782.
- Gerety, K.M. 1985. Problems with determination of U^* from wind-velocity profiles measured in experiments with saltation. In *Proceedings of International Workshop of the Physics of Blown Sand*. Department of Theoretical Statistics, University of Aarhus Memoirs 8.
- Gerety, K.M. and Slingerland, R.L. 1982. "Saltation Equivalence" in Aeolian Sand Transport (abs). *International Association of Sedimentologists, Eleventh International Congress*. Hamilton, Ontario. p. 673.
- Gerety, K.M. and Slingerland, R.L. 1983. Nature of the Saltating Population in Wind Tunnel Experiments with Heterogeneous Size-Density Sands. In Brookfield, M.E. and Ahlbrandt, T.S. (eds). *Eolian Sediments and Processes*. Developments in Sedimentology 38. Amsterdam: Elsevier. pp. 115-132.
- Gerhardt, P. 1900. *Handbuch des Deutschen Dunenbaues*. Berlin: Parey, 656 p.
- Gherisimov, J.P. 1931. De Quelques Formes de Relief de la Steppe Desertique. *Gosudarstvennoye Geograficheskoye Obshchestvo, Izvestiya*. 63(4): 293-300.
- Gerson, R. 1982. The Middle East; Landforms of a Planetary Desert Through Environmental Changes. *Striae*. 17: 52-78.
- Gevers, T.W. 1936. The Morphology of Western Damaraland and the Adjoining Namib Desert. *South African Geographical Journal*. 19: 61-79.
- Gibson, E.S.H. 1946. Singing Sands. *Royal Society of South Australia, Transactions*. 70: 35-44.
- Gile, L.H. 1966. Coppice Dunes and Rotura Soil. *Soil Science Society of America, Proceedings*. 30: 657-660.
- Gile, L.H. 1975. Causes of Soil Boundaries in an Arid Region, I,II. *Soil Science Society of America, Proceedings*. 39: 316-330.
- Gile, L.H. 1979. Holocene Soils in Eolian Sediments of Bailey County, Texas. *Soil Science Society of America, Journal*. 43(5): 994-1003.
- Gile, L.H. 1981. *Soils and Stratigraphy of Dunes along a Segment of Farm Road 1731, Bailey County, Texas*. International Center for Arid and Semi-Arid Land Studies, Texas Technical University, Lubbock. Publication 81-2. 78 p.
- Gile, L.H. and Grossman, R.B. 1979. *The Desert Project Soil Monograph: Soils and Landscapes of a Desert Region Astride the Rio Grande Valley near Las Cruces, New Mexico. Final Report*. United States Soil Conservation Service, Washington, D.C. 1025 p.
- Giegengack, R. and Underwood, J.R. Jr. 1980. Field Observations within a Little Known Dune Complex in the Great Sand Sea, Western Desert, Egypt (abs). *Reports of Planetary Geology Program*. NASA TM-82385.
- Gillette, D.A., Adams, J., Endo, A., Smith, D. and Kihl, R. 1980. Threshold Velocities for Input of Soil Particles into the Air by Desert Soils. *Journal of Geophysical Research*. 85(C10): 5621-5630.
- Gillette, D.A. and Goodwin, P.A. 1974. Microscale Transport of Sand-Sized Soil Aggregates Eroded by Wind. *Journal of Geophysical Research*. 79: 4080-4084.
- Gillette, D.A. and Stockton, D.A. 1986. Mass momentum and kinetic energy fluxes of saltating particles. In Nickling, W. G. (ed). *Aeolian Geomorphology*. Proceedings of the 17th Annual Binghamton Geomorphology Symposium, September 1986. pp. 36-56.
- Ginzbourg, D. 1971. Note on the Eolian Deposits and Loess of Northern Sinai and the Western Negev, Israel. *Etudes sur le Quaternaire dans le Monde, Vol. 2*. Association Francaise Etude Quaternaire, Bulletin Supplement. 4: 757-758.
- Glassford, D.K. and Killigrew, L.P. 1976. Evidence for Quaternary Westward Extension of the Australian Desert into Southwestern Australia. *Search*. 7: 394-395.

- Glennie, K.W. 1970. *Desert Sedimentary Environments*. Developments in Sedimentology 14. Amsterdam: Elsevier, 220 p.
- Glennie, K.W. and Evamy, B.D. 1968. Dikaka: Plants and Plant Root Structures Associated with Aeolian Sand. *Paleogeography, Paleoclimatology, Paleoecology*. 23: 77-87.
- Godfrey, D.D.H. 1974. Stabilization of Avalon Sand Dunes. *Journal of the Soil Conservation Service of New South Wales*. 30(2): 78-85.
- Goldsmid, J.G. 1897. Singing and Drifting Sand. *Geographical Journal*. 9:454-455.
- Goldsmith, V. 1973. Formation and Internal Geometry of Vegetated Sand Dunes. *Journal of Sedimentary Petrology*. 43: 1128-1142.
- Goodall, D.W., Perry, R.A. and Howes, K.M.W. (eds). 1979. *Arid Land Ecosystems; Structure, Functioning and Management, Vol. 1*. International Biological Programme, Cambridge University Press, 881 p.
- Gorelov, S.K., Redzhepov, M. and Zhumashov, A. 1984. Origin of relief in the central Karakum lowlands. *Problems of Desert Development*. 5: 70-82.
- Goudie, A.S. 1969. Statistical Laws and Dune Ridges in Southern Africa. *Geographical Journal*. 135: 403-406.
- Goudie, A.S. 1970. Notes on Some Major Dune Types in South Africa. *South African Geographical Journal*. 52: 93-101.
- Goudie, A.S. 1972(a). *The Concept of Post-Glacial Progressive Desiccation*. Oxford University Department of Geography Research Paper 4.
- Goudie, A.S. 1972(b). Climate, Weathering, Crust Formation, Dunes and Fluvial Features of the Central Namib Desert, South West Africa. *Madoqua*. 2: 54-62.
- Goudie, A.S. 1983. The Arid Earth. In Gardner, R. and Scoging, H. (eds). *Megageomorphology*. Oxford: Clarendon Press. p. 152-171.
- Goudie, A.S. and Sperling, C.H.B. 1977. Long Distance Transport of Foraminifera Tests by Wind in the Thar Desert, Northwest India. *Journal of Sedimentary Petrology*. 47: 630-633.
- Goudie, A.S. and Thomas, D.S.G. 1985. Pans in Southern Africa with Particular Reference to South Africa and Zimbabwe. *Zeitschrift fur Geomorphologie*. 29(1): 1-19.
- Goudie, A.S. and Thomas, D.S.G. 1986. Lunette dunes in southern Africa. *Journal of Arid Environments*. 10: 1-12.
- Goudie, A.S. and Watson, A. 1981. The Shape of Desert Sand Dune Grains. *Journal of Arid Environments*. 4: 185-190.
- Goudie, A.S. and Wilkinson, J. 1977. *The Warm Desert Environment*. Cambridge University Press. 88 p.
- Goudie, A.S., Allchin, B. and Hegde, K.T.M. 1973. The Former Extension of the Great Indian Sand Desert. *Geographical Journal*. 139(2): 243-257.
- Goudie, A.S., Cooke, R.U. and Doornkamp, J.C. 1979. The Formation of Silt from Quartz Dune Sand by Salt-Weathering Processes in Deserts. *Journal of Arid Environments*. 2: 105-112.
- Gozdik, J.S. 1981. Les Changements de Processus Eoliens dans la Pologne Centrale au cours du Visterlian, Wurm. *Recherches Geographiques a Strasbourg*. 16-17: 115-120.
- Grabau, A.W. 1913. Dunes. In *Principles of Stratigraphy*. New York: Saler. pp. 551-578.
- Graetz, R.D., Tongway, D.J. and Pech, R.P. 1982. *An Ecological Classification of the Lands Comprising the Southern Simpson Desert and its Margins*. CSIRO Rangelands Research Centre, Deniliquin Technical Memorandum 82/2.
- Grandet, C. 1955. Aspects de la Morphologie Dunaire dans la Region de Beni-Abbes. *Societe Geologique de France, Bulletin, Serie 6*. 5: 135-142.
- Grandet, C. 1957. Sur la Morphologie Dunaire de la Rive Sud du Lac Faguibine. *Institut de Recherches Sahariennes, Travaux*. 16: 171-179.
- Greeley, R. 1968. Mars: A Model for the Formation of Dunes and Related Structures (abs). *NASA Technical Memorandum*. TM-79729: 244-245.
- Greeley, R. 1979. Silt Clay Aggregate Dunes on Mars. *Journal of Geophysical Research*. 84: 6248-6254.
- Greeley, R. 1981. Aeolian Activity as a Planetary Process. *International Association of Sedimentologists, Memorandum*. pp. 409-418.
- Greeley, R. 1982. Aeolian Modification of Planetary Surfaces. In Coradini, A. and Fulchignoni, M. (eds). *The Comparative Study of the Planets*. Dordrecht: D. Reidel. pp. 419-434.
- Greeley, R. 1985. Aeolian geomorphology from the Global perspective. In Hayden, R.S. (ed) *Global Mega Geomorphology*. NASA Conference Publication 2312: 64-67.

- Greeley, R. 1986 (a). Aeolian Landforms: laboratory simulations and field studies. In Nickling, W. G. (ed). *Aeolian Geomorphology*. Proceedings of the 17th Annual Binghamton Geomorphology Symposium, September 1986. pp. 195-212.
- Greeley, R. 1986 (b). Aeolian Activity as a planetary process. In El-Baz, F. and Hassan, M.H.A. (eds). *Physics of Desertification*. Martinus Nijhoff. pp. 159-190.
- Greeley, R. and Black, D. (eds) 1978. *Abstracts for the Planetary Field Conference on Aeolian Processes*. NASA TM-78455, 59 p.
- Greeley, R. and Iversen, J.D. 1985. *Wind as a Geological Process on Earth, Mars, Venus and Titan*. Cambridge University Press. 333 p.
- Greeley, R. and Iversen, J.D. 1986. Aeolian Processes and Features at Amboy Lava Field, California. In El-Baz, F. and Hassan, M.H.A. (eds). *Physics of Desertification*. Martinus Nijhoff. pp. 290-317.
- Greeley, R. and Leach, R. 1978. A Preliminary Assessment of the Effects of Electrostatics on Aeolian Processes. *Reports of Planetary Geology Program*. NASA TM-79729: 236-237.
- Greeley, R. and Peterfreund, A.R. 1981. Aeolian 'Megaripples': Examples from Mono Craters, California and Northern Iceland (abs). *Geologic Society of America, Abstracts Program*. 13:463.
- Greeley, R., Christensen, P.R., McHone, J.F., Asmerom, Y. and Zimbelman, J.R. 1984. *Analysis of the Gran Desierto - Pinacate Region Sonora, Mexico via Shuttle Imaging Radar*. NASA Contractor Report. 44 p.
- Greeley, R., Iversen, J., Leach, R., Marshall, J., White, B. and Williams, S. 1984. Windblown sand on Venus. *Icarus*. 57: 112-124.
- Greeley, R., Iversen, J.D., Pollack, J.B., Udovich, N. and White, B. 1974. Wind Tunnel Studies of Martian Aeolian Processes. *Proceedings of the Royal Society, Series A*. 341: 331-360.
- Greeley, R., Koscielniak, D.E. and Hodge, D.S. 1971. Bruneau Sand Dune Field, Idaho and its Possible Implications to Martian Geology (abs). *EOS, Transactions of the American Geophysical Union*. 52(11): 860.
- Greeley, R., Leach, R., White, B.R., Iversen, J. and Pollack, J. 1980. Threshold Wind Speeds for Sand on Mars: Wind Tunnel Simulations. *Geophysical Research Letters*. 7: 121-124.
- Greeley, R., Malin, M., Williams, S. and Stewart, G. 1980. Field Studies of Aeolian Patterns (abs). *Reports of Planetary Geology Program*. NASA TM-82385: 290-291.
- Greeley, R., Malone, K., Leach, R., Leonard, R. and White, B.R. 1980. Flux of Wind Blown Particles on Mars: Preliminary Wind Tunnel Determination. *Reports of Planetary Geology Program*. NASA TM-82385: 278-279.
- Greeley, R., Marshall, J.R. and Leach, R. 1984. Microdunes and Other Aeolian Bedforms on Venus: Wind Tunnel Simulations. *Icarus*. 60: 152-160.
- Greeley, R., White, B.R., Leach, R., Iversen, J. and Pollack, J. 1976. Mars: Wind Friction Speeds for Particle Movement. *Geophysical Research Letters*. 3: 417-420.
- Greeley, R., White, B.R., Leach, R., Leonard, R., Pollack, J. and Iversen, J. 1980. Venus Aeolian Processes: Saltation Studies and the Venusian Wind Tunnel. *Reports of Planetary Geology Program*. NASA TM-82385: 275-277.
- Greeley, R., Williams, S. and Marshall, J.R. 1983. Velocities of Windblown Particles in Saltation: Preliminary Laboratory and Field Measurements. In Brookfield, M.E. and Ahlbrandt, T.S. (eds). *Eolian Sediments and Processes*. Developments in Sedimentology 38. Amsterdam: Elsevier. pp. 133-148.
- Greeley, R., Williams, S., White, B.R., Pollack, J., Marshall, J. and Krinsley, D. 1984. *Abrasion by Aeolian Particles: Earth and Mars*. NASA Contractor Report. 3788.
- Greeley, R., Womer, M.B., Papson, R.P. and Spudis, P.D. 1978. *Aeolian Features of Southern California: A Comparative Planetary Geology Guidebook*. Office of Planetary Geology, NASA, Washington, D.C. 264 p.
- Green, F.E. 1961. The Monahans Dunes Area. In Wendorf, F. (ed). *Palaeoecology of the Llano Estacado*. Fort Burgwin Research Centre, Publication. 1: 22-47.

- Greenwood, P.W. 1983. Early Holocene Reactivation of Clay Dunes in Northern New South Wales. In Wasson, R.J. (ed). *Quaternary Dust Mantles of China, New Zealand and Australia*. Proceedings of Workshop, Publication of the Department of Biogeography and Geomorphology, Australian National University, Canberra. pp. 241-241.
- Grey, D.R.C. and Cooke, H.J. 1977. Some Problems in the Quaternary Evolution of the Landforms of Northern Botswana. *Catena*. 4: 123-133.
- Griffin, C. 1983. A Palaeoenvironmental Interpretation of Qatar Dune Sands, Using the Scanning Electron Microscope. Unpublished Report. *Qatar Ministry of Public Works*.
- Grigal, D.F., Severson, R.C. and Goltz, G.E. 1976. Evidence of Eolian Activity in North Central Minnesota 8000 to 5000 Years Ago. *Geological Society of America, Bulletin*. 87: 1251-1254.
- Gripp, K. 1961. Über Werden und Vergehen von Barchanen an der Norseeküste Schleswig-Holsteins. *Zeitschrift für Geomorphologie*. 5: 24-36.
- Grolier, M.J., Ericksen, G.E., McCauley, J.F. and Morris, E.C. 1979. *The Desert Landforms of Peru, a Preliminary Photographic Atlas*. United States Geological Survey Inter-Agency Report: Astrogeology 57, 146 p.
- Grolier, M.J. and Schultejann, P.A. 1982. *The Environment of South - Central Tunisia as Observed on Landsat Scene 206/036*. United States Geological Survey Open-File Report 82-0130. 43 p.
- Grove, A.T. 1957. Patterned Ground in Northern Nigeria. *Geographical Journal*. 123: 271-274.
- Grove, A.T. 1958. The Ancient Erg of Hausaland and Similar Formations on the South Side of the Sahara. *Geographical Journal*. 124: 528-533.
- Grove, A.T. 1959. A Note on the Former Extent of Lake Chad. *Geographical Journal*. 125: 465-467.
- Grove, A.T. 1960. The Geomorphology of the Tibesti Region. *Geographical Journal*. 126: 18-31.
- Grove, A.T. 1969. Landforms and Climatic Change in the Kalahari and Ngamiland. *Geographical Journal*. 135: 191-212.
- Grove, A.T. 1974. Desertification in the African Environment. *African Affairs*. 73: 137-151.
- Grove, A.T. 1977. *The Geography of Semi-Arid Lands*. Philosophical Transactions of the Royal Society, London, B 278: 457-475.
- Grove, A.T. 1980. Geomorphic Evolution of the Sahara and the Nile. In Williams, M.A.J. and Faure, H. (eds). *The Sahara and the Nile*. Rotterdam: A.A. Balkema. pp. 7-16.
- Grove, A.T. and Pullan, R.A. 1963. Some Aspects of the Pleistocene Paleogeography of the Chad Basin. In Howell, F.C. and Bourliere, F. (eds). *African Ecology and Human Evolution*. Chicago: Aldine Publishing Co. pp. 230-245.
- Grove, A.T. and Warren, A. 1968. Quaternary Landforms and Climate on the South Side of the Sahara. *Geographical Journal*. 134: 194-208.
- Guang-Rong, D., Bao-Sheng, L., Shang-Yu, G., Zheng, W. and Ya-Jun, S. 1983. The Quaternary Ancient Aeolian Sand in the Ordos Plateau (in Chinese). *Acta Geographica Sinica*. 38(4): 341-347.
- Gudelis, V. and Vaitoniene, R. 1976. Morphological and Genetic - Morphodynamical (Evolutional) Classifications of the Ancient Inland Dunes in the Humid Zone, Lithuania. *Studia Societatis Scientiarum Torunensis Sectio C, Geographia et Geologia*. 8(4-6): 75-83.
- Guinness, E.A., Leff, C.E. and Arvidson, R.E. 1982. Two years of surface changes seen at the Viking landing sites. *Journal of Geophysical Research*. 87: 10051-10058.
- Gunn, R.H. 1982. The Plains of Central and Southern Sudan. In Williams, M.A.J. and Adamson, D.A. (eds). *A Land between Two Niles: Quaternary Geology and Biology of the Central Sudan*. Rotterdam: A.A. Balkema. pp. 81-109.
- Gunther, S.V. 1907. Ein Naturmodell der Dunenbildung. *Akademie der Wissenschaften, München, Mathematisch Physikalische Klasse, Sitzungsberichte*. pp. 139-153.
- Gupta, J.P. 1979. Some Observations on the Periodic Variations of Moisture in Stabilised and Unstabilised Sand Dunes of the Indian Desert. *Journal of Hydrology*. 41(1-2): 153-156.
- Gupta, J.P. and Aggarwal, R.K. 1980. Sand Movement Studies Under Different Land Use Conditions of Western Rajasthan. In Mann, H.S. (ed). *Arid Zone Research and Development*. Scientific Publication, Ratanada, Jodhpur, India. pp. 109-114.

- Habbe, K.A. 1974. Beobachtungen an Dünen des Nuemberger Reichswaldes. (Observations of Dunes in the Nuremberg State Forest) (abs). *Eiszeitalter und Gegenwart, Deutsche Quartärvereinigung Jahrbuch*. 25: 215.
- Hachisuka, M (ed). 1932. *Le Sahara*. Paris: Societe d'Editions Geographique, Marit. et Col. 167 p.
- Hack, J.T. 1941. Dunes of the Western Navaho County. *Geographical Review*. 31(2): 240-263.
- Haff, P.K. 1986. Booming dunes. *American Scientist*. 74: 376-380.
- Hagedorn, H. 1968. Über Äolische Abtragung und Formung in der Südost - Sahara. *Erdkunde*. 22(4): 257-269.
- Hagedorn, H. 1971. Untersuchungen über Relieftypen Äolischer Räume an Beispielen aus dem Tibesti - Gebirge und seiner Umgebung. *Zeitschrift für Geomorphologie, Supplement*. 11. 251 p.
- Hagedorn, H. 1974. Gegenwärtige Äolische Abtragungsprozesse in der Zentralsahara. (Present Day Eolian Erosional Processes in the Central Sudan). *Akademiya der Wissenschaften in Göttingen Mathematisch - Physikalische Klasse Abhandlungen*. 3(29): 230-249.
- Hagedorn, H. 1979(a). Das Verbreitungsmuster der Dünen am Westrand des Murzuk - Beckens, Zentrale Sahara. In Buedel, J. et al (ed). *Natur und Wirtschaftsgeographische Forschungen in Afrika*. Würzburg Geographische Abhandlungen. 49: 103-123.
- Hagedorn, H. 1979(b). Aeolian Relief Forms at the Western Margin of the Murzuk Basin. *Palaeoecology of Africa*, 2: 55-57.
- Hagedorn, H., Giessner, K., Weise, O., Busche, D. and Grunert, J. 1977. *Dune Stabilization, A Survey of Literature on Dune Formation and Dune Stabilization*. Schr. R. der Gt. Z. Eschborn, 193 p.
- Hagen, L.J. and Armbrust, D.V. 1985. Effects of field ridges on soil transport by wind. In *Proceedings International Workshop on the Physics of Blown Sand*. Department of Theoretical Statistics, University of Aarhus Memoir 8.
- Hahmann, P. 1912. Die Bildung von Sandwellen. *Annalen der Physik, Serie 4*. 39: 637-676.
- Hallier, U.W. 1976. Beitrag zur Kenntnis der Mittleren und Südlichen Lut, Iran. *Zeitschrift für Geomorphologie*. 20(1): 108-120.
- Hamblock, H. 1958. Das Alter Einiger Dünen an der Obren Ems. *Erdkunde*. 12: 128.
- Hamdam, R.A. 1965. *The Size and Shape Characteristics of Some Modern Desert Sands*. University of Sheffield, PhD Thesis.
- Hand, B.M. 1967. Differentiation of Beach and Dune Sands Using Settling Velocities of Light and Heavy Minerals. *Journal of Sedimentary Petrology*. 37: 514-521.
- Hanna, S.R. 1969. The Formation of Longitudinal Sand Dunes by Large Helical Eddies in the Atmosphere. *Journal of Applied Meteorology*. 8: 874-883.
- Hansen, V. 1957. Sandflugten i Thy og dens Indflydelse på Kulturlandskabet. (The Movement of Sand Dunes in Thy and its Human Consequences). *Geografisk Tidsskrift*. 56: 69-92.
- Harmse, J.T. 1980. *Die Noordwaarse Begrensing van die Duine van die Sentrale Namib Langs die Benede - Kuiseb*. University of Stellenbosch, MSc Thesis.
- Harmse, J.T. 1982. Geomorphologically Effective Winds in the Northern Part of the Namib Sand Desert. *South African Geographer*. 10: 43-52.
- Harrington, J.M. 1961. Geology of Parts of Antofagasta and Atacama Provinces, Northern Chile. *American Association of Petroleum Geologists, Bulletin*. 45: 169-197.
- Harris, S.A. 1955. *The Mechanical Composition of Certain Recent and Fossil Beach and Desert Sand Deposits*. University of London, MSc Thesis.
- Harris, S.A. 1957. The Mechanical Constitution of Certain Present Day Egyptian Dune Sands. *Journal of Sedimentary Petrology*. 27: 421-434.
- Harris, S.A. 1958(a). Differential Analysis of Aeolian Sand. *Journal of Sedimentary Petrology*. 28: 164-174.
- Harris, S.A. 1958(b). Probability Curves and the Recognition of Adjustment to Depositional Environment. *Journal of Sedimentary Petrology*. 28: 151-163.
- Hartnack, W. 1925. *Wanderdünen Pommerns, ihre Form und Entstehung*. Greifswald: Druck und Verlag von Julius Abel. 112 p.
- Hartnack, W. 1931. Zur Entstehung und Entwicklung der Wanderdünen an der Deutschen Ostseeküste. *Zeitschrift für Geomorphologie*. 6: 174-217.
- Hassan, A.H. 1980. Problems of sand dunes in Somalia. *Somali Range Bulletin*. 10: 26-30.

- Hastenrath, S.L. 1967. The Barchans of the Arequipa Region, Southern Peru. *Zeitschrift fur Geomorphologie*. 11: 300-331.
- Hastenrath, S.L. 1978. Mapping and Surveying - Dune Shape and Multiannual Displacement. In Lettau, H.H. and Lettau, K. (eds). *Exploring the World's Driest Climate*. University of Wisconsin-Madison, Institute for Environmental Studies, IES Report 101: 74-88.
- Hastings, J.D. 1971. Sand Streets. *Meteorological Magazine*. 100(1186): 155-159.
- Havholm, K.G. and Kocurek, G. 1986. Draa dynamics: a study of a modern draa, Algodones dunefield, California. *Abstracts 12th International Sedimentological Congress*.
- Haynes, C.V. 1982. Great Sand Sea and Selima Sand Sheet, Eastern Sahara: Geochronology of Desertification. *Science*. 217: 629-633.
- Haynes, C.V. and Johnson, D.L. 1984. A provisional soil chronosequence for the Quaternary of the eastern Sahara. *Geological Society of America 97th Annual Meeting Abstracts with Programs*. 534-535.
- Hedin, S. 1896. A Journey Through the Takla-Makan Desert, Chinese Turkestan. *Geographical Journal*. 8: 264-278, 356-372.
- Hedin, S. 1905. The central Asian deserts, sand dunes and sands, part II. In *Scientific Results of a Journey in Central Asia 1899-1902*, vol 2. Stockholm, Swedish Army Lithographic Institute: 379-718.
- Hefley, H.M. and Sidwell, R. 1945. Geological and Ecological Observations of some High Plains Dunes. *American Journal of Science*. 243: 361-376.
- Hegde, K.T.M. 1982. The Holocene climate in Giarat and Rajasthan. In Merh, S.S. (ed) *1st National Seminar on Quaternary Environments*, 179-185.
- Hegde, K.T.M. and Sychanthavong, S.P. 1982. The Great Indian Desert. *Striae*. 17: 92-100.
- Heine, K. 1972. Proyecto Puebla Tlaxcala: las Dunas en El Carmen. *Fundacion Alemand para la Investigacion Cientifica, Comunicaciones*. 6: 13-20.
- Heine, K. 1981. Aride und Pluviale Bedingungen Wahrend der Letzten Kaltzeit in der Sudwest - Kalahari, Sudliches Afrika. Ein Beitrag zur Klimagenetischen Geomorphologie der Dunen, Pfannen und Taler. *Zeitschrift fur Geomorphologie, Supplement*. 38: 1-37.
- Heine, K. 1982. The Main Stages of the Late Quaternary Evolution of the Kalahari Region; Southern Africa. *Paleoecology of Africa*. 15: 53-76.
- Heller, S.J. 1932. Sur la Morphologie de Quelques Formations Sabloneuse des Karakoum Transcasiens. *Gosudarstvennoe Geograficheskoe Obshchestvo, Izvestiia*. 64(4-5): 387-390.
- Heller, S.J. and Kunin, V. 1933. Sur l'Origine des Chaines de Sable. *Academie des Sciences, Leningrad, USSR, Comptes Rendus*. 2: 88-91.
- Hemming, C.F. and Trapnell, C.G. 1957. A Reconnaissance Classification of the Soils of the South Turkana Desert. *Journal of Soil Science*. 8(2): 167-183.
- Hermesh, R. 1972. *A Study of the Ecology of the Athabasca Sand Dunes with Emphasis on the Phytogenic Aspects of Dune Formation*. University of Saskatchewan, Saskatoon. MSc Thesis, 158 p.
- Herzig, C.T. and El-Baz, F. 1980. The Effects of Mineralogy and Grain Shape on the Colour of Sands from the Western Desert of Egypt and Possible Applications to Mars (abs). In Holt, H.E. *Reports of Planetary Geology Program*, NASA TM-82385: 301-303.
- Hesp, P.A. 1981. The Formation of Shadow Dunes. *Journal of Sedimentary Petrology*. 51: 101-112.
- Hesp, P.A. 1983. Morphodynamics of Incipient Foredunes in New South Wales, Australia. In Brookfield, M.E. and Ahlbrandt, T.S. (eds). *Eolian Sediments and Processes*. Developments in Sedimentology 38. Amsterdam: Elsevier. pp. 325-342.
- Hickok, D.M., Labelle, J.C. and Adler, R.G. 1982. The Arctic Desert. In Bender, G.L. (ed). *Reference Handbook of the Deserts of North America*. Westport, Connecticut: Greenwood Press. pp. 383-403.
- Hidore, J.J. and Albokhair, Y. 1982. Sand Encroachment in Al-Hasa Oasis, Saudi Arabia. *Geographical Review*. 72(3): 350-356.
- Higgins, G.M., Ahmed, M. and Brinkman, R. 1973. The Thal Interfluvium, Pakistan; Geomorphology and Depositional History. *Geologie en Mijnbouw*. 52(3): 147-155.
- Higgins, G.M., Baig, S. and Brinkman, R. 1974. The Sand of Thal; Wind Regimes and Sand Ridge Formations. *Zeitschrift fur Geomorphologie*. 18(3): 272-290.

- Hills, E.S. 1939(a). The Lunette, a New Landform of Aeolian Origin. *Australian Geographer*. 3: 15-21.
- Hills, E.S. 1939(b). The Physiography of Northwestern Victoria. *Royal Society of Victoria, Proceedings*. 51(2): 297-320.
- Hills, E.S. 1953. Regional Geomorphic Patterns in Relation to Climatic Types in the Dry Areas of Australia. In *Desert Research, Proceedings, International Symposium, Jerusalem*. Research Council of Israel, Special Publication. 2: 355-364.
- Hirault, J. 1966. Etude Photo-Aerienne de la Tendance a la Remobilisation des Sables Eoliens sur la Rive Nord du Lac Tchad. *Revue d'Institut Francais de Petrole*. 21: 1837-1846.
- Hogbom, I. 1923. Ancient Inland Dunes of North and Middle Europe. *Geografiska Annaler*. 5: 113-243.
- Holliday, V.T. 1984. Climatic implications of mid Holocene eolian deposits on the southern High Plains. In *Geological Society of America 97th Annual Meeting*. p 542.
- Holm, D.A. 1953. Dome-Shaped Dunes of the Central Nejd, Saudi Arabia. *International Geological Congress, 19th, Algiers, Compte Rendu*. 7: 107-112.
- Holm, D.A. 1957. Sigmoidal Dunes, a Transitional Form (abs). *Geological Society of America, Bulletin*. 66(12:2): 1746.
- Holm, D.A. 1960. Desert Geomorphology in the Arabian Peninsula. *Science*. 123: 1369-1379.
- Holm, D.A. 1968. Sand Dunes. In Fairbridge, R.W. (ed): *The Encyclopedia of Geomorphology*. New York: Reinhold Book Corporation. pp. 973-979.
- Holtenburger, M. 1913. On a Genetic System of Sand Dunes Including Two New Types. *American Geographical Society, Bulletin*. 45: 513-515.
- Hopkins, E.S. 1935. Soil Drifting in Canada. *International Congress of Soil Science, 3rd, Oxford, Transactions*. 1: 403-405.
- Horikawa, K. and Shen, H.W. 1960. Sand Movement by Wind. *United States Army Corps of Engineers, Beach Erosion Board, Technical Memorandum 119*. 51 p.
- Horner, N.G. 1927. Brattforshden. Elt Varmlandskt Randdeltekomplex och Desdyner. *Sveriges Geologiska Undersokning, Arsbok* 20.
- Horner, N.G. 1936. Geomorphological Processes in Continental Basins of Central Asia. *International Geological congress, 16th, Washington*. 2: 723-729.
- Horner, N.G. 1937. Some notes and data concerning dunes and sand drift in the Gobi Desert. *Reports from the scientific expedition to the north-western provinces of China under the leadership of S. Hedin* 40: III. Geology 5. Stockholm.
- Hotzl, H., Felber, H. and Zotl, J.G. 1978. The Quaternary Development of the Upper Part of Wadi Rimah. In Al-Sayari, S.S. and Zotl, J.G. (eds) *Quaternary Period in Saudi Arabia, Vol. 1; Sedimentological, Hydro-Geological, Hydrochemical, Geomorphological and Climatological Investigations in Central and Eastern Saudi Arabia*. New York: Springer-Verlag. pp. 173-182.
- Howard, A.D. 1975. Eolian Processes and Forms (abs). *Geological Society of America, Abstracts Program*. 7(7): 1122.
- Howard, A.D. 1977(a). Effects of Slope on the Threshold of Motion and its Application to Orientation of Wind Ripples. *Geological Society of America, Bulletin*. 88: 853-856.
- Howard, A.D. 1977(b). Geological, Topographic and Meteorological Influences on Eolian Deposition, Earth and Mars (abs). In Arvidson R.E. and Wahmann (eds). *Eolian Processes*. Reports of Planetary Geology Program. NASA TMX-3511: 148-149.
- Howard, A.D. 1985. Interaction of sand transport with topography and local winds in the northern Peruvian coastal desert. In *Proceedings of International Workshop on the Physics of Blown Sand*. Department of Theoretical Statistics, University of Aarhus. 511-544.
- Howard, A.D. and Walmsley, J.L. 1985. Simulation model of isolated dune sculpture by wind. In *Proceedings of International Workshop on the Physics of Blown Sand*. Department of Theoretical Statistics, University of Aarhus. 377-392.
- Howard, A.D., Morton, J.B., Gad-el-Hak, M. and Pierce, D.B. 1977. *Simulation Model of Erosion and Deposition in a Barchan Dune*. School of Engineering and Applied Science, University of Virginia, Charlottesville. 78 p.
- Howard, A.D., Morton, J.B., Gad-el-Hak, M. and Pierce, D.B. 1978. Sand Transport Model of Barchan Dune Equilibrium. *Sedimentology*. 25(3): 307-338.
- Howe, G.M., Reed, L.J., Ball, J.T. et al. 1968. *Classification of World Desert Areas*. U.S. Army Natick Laboratory, 104 p.

- Hoyt, J.H. 1966. Air and Sand Movements in the Lee of Dunes. *Sedimentology*. 7: 137-144.
- Hsu Chun-Min. 1965. The Sources of Dune Sand in the Region East of the Yellow River in Ninghsia (in Chinese). *Acta Geographica Sinica*. 31: 142-156.
- Hsu, S.A. 1971. Wind Stress Criteria in Eolian Sand Transport. *Journal of Geophysical Research*. 76: 8684-8686.
- Hsu, S.A. 1973. Computing Eolian Sand Transport from Shear Velocity Measurements. *Journal of Geology*. 81: 739-743.
- Hsu, S.A. 1974. Computing Eolian Sand Transport from Routine Weather Data. *Proceedings of the Fourteenth Conference on Coastal Engineering*. pp. 1619-1626.
- Huffington, R.M. and Albritton, G.C. 1941. Quaternary Sands of the High Plains. *American Journal of Science*. 239: 325-.
- Huffman, C.G. and Price, W.A. 1949. Clay Dune Formation near Corpus Christi, Texas. *Journal of Sedimentary Petrology*. 19(3): 118-127.
- Huhou, Li. 1983. A Primary Study on Dating of Dunes by Using the Characteristics of Thermoluminescence in Quartz. *Journal of Desert Research*. 3: 18-24.
- Hume, W.F. 1909. Review of "An Egyptian Oasis" by H.J.L. Beadnell. *Cairo Scientific Journal*. 3(33): 148-154.
- Hume, W.F. 1921. The Egyptian Wilderness. *Geographical Journal*. 58: 249-276.
- Hume, W.F. 1925. *The Geology of Egypt*. Cairo: Ministry of Finance.
- Humphries, D.W. 1966. A Comparison of the Booming Sand of Korizi (Sahara) with the Squeaking Sand of the Gower (South Wales). *Sedimentology*. 6: 135-153.
- Hunt, J.C.R. and Nalpanis, P. 1985. Saltation and suspended particles over flat and sloping surfaces. I: Modelling concepts. In *Proceedings of International Workshop on Physics of Blown Sand*. Department of Theoretical Statistics, University of Aarhus. 9-36.
- Hunter, R.E. 1973. Pseudo-crosslamination formed by climbing adhesion ripples. *Journal of Sedimentary Petrology*. 43 (4): 1125-1127.
- Hunter, R.E. 1974. Types of Eolian Strata and Pseudostrata (abs). *American Association of Petroleum Geologists, Annual Meeting Abstracts*. 1: 47-48.
- Hunter, R.E. 1977(a). Basic Types of Stratification in Small Eolian Dunes. *Sedimentology*. 24: 361-388.
- Hunter, R.E. 1977(b). Terminology of Cross-Stratified Sedimentary Layers and Climbing Ripple Structures. *Journal of Sedimentary Petrology*. 47: 697-706.
- Hunter, R.E. 1980. Quasi-planar adhesion stratification - an eolian structure formed in wet sand. *Journal of Sedimentary Petrology*. 50 (1): 263-266.
- Hunter, R.E., Richmond, B.M. and Alpha, T.R. 1983. Storm Controlled Oblique Dunes of the Oregon Coast. *Geological Society of America, Bulletin*. 94: 1450-1465.
- Hunter, R.E. and Rubin, D.M. 1983. Interpreting Cyclic Crossbedding, with an Example from the Navajo Sandstone. In Brookfield, M.E. and Ahlbrandt, T.S. (eds). *Eolian Sediments and Processes*. Developments in Sedimentology 38. Amsterdam: Elsevier. pp. 429-454.
- Hunting Surveys, Ltd. 1977. *Sand Dune Movement Study, South of Umm Said, Technical Report*. Qatar Ministry of Public Works.
- Hurst, H.E. 1909. Notes on Sand Dunes at Tema. *Cairo Scientific Journal*. 31: 82-83.
- Hutchison, D.M. 1969. Provenance of Sand in the Great Sand Dunes National Monument, Colorado (abs). *Dissertation Abstracts International*. 30(2): 710B.
- Hyde, R. and Wasson, R.J. 1983. Radiative and Meteorological Control on the Movement of Sand at Lake Mungo, New South Wales, Australia. In Brookfield, M.E. and Ahlbrandt, T.S. (eds). *Eolian Sediments and Processes*. Developments in Sedimentology 38. Amsterdam: Elsevier. pp. 311-324.
- Illenberger, W.K. and Rust, I.C. 1986. Venturi compensated eolian sand trap for field use. *Journal of Sedimentary Petrology*. 56: 541-542.
- Inman, D.L., Ewing, G.C. and Corliss, J.B. 1966. Coastal Sand Dunes of Guereiro Negro, Baja California, Mexico. *Geological Society of America, Bulletin*. 77: 787-802.
- Ivanov, A.P. 1982. Barchan Movement Velocity Depending on its Profile, Height and Wind Speed (in Russian). *Problemy Osvoeniya Pustyn' Akademiya Nauk Turkmenskoi SSR*. 6: 66-68.
- Iversen, J.D. 1983. Saltation Threshold and Deposition Rate Modelling. In Brookfield, M.E. and Ahlbrandt, T.S. (eds). *Eolian Sediments and Processes*. Developments in Sedimentology 38. Amsterdam: Elsevier. pp. 103-114.

- Iversen, J.D. 1985. Aeolian threshold: effect of density ratio. In *Proceedings of International Workshop on the Physics of Blown Sand*. Department of Theoretical Statistics, University of Aarhus. 67-82.
- Iversen, J.D. 1986 (a). Small scale wind tunnel modelling of particle transport. - Froude Number effect. In Nickling, W. G. (ed). *Aeolian Geomorphology*. Proceedings of the 17th Annual Binghamton Geomorphology Symposium, September 1986. pp. 19-34.
- Iversen, J.D. 1986(b). Aeolian Processes in the Environmental Wind Tunnel and in the Atmosphere. In El Baz, F. and Hassan, M.H.A. (eds). *Physics of Desertification*. Martinus Nijhoff. pp. 318-321.
- Iversen, J.D. 1986 (c). Saltation threshold mechanics. In El Baz, F. and Hassan, M.H.A. (eds). *Physics of Desertification*. Martinus Nijhoff. pp. 344-360.
- Iversen, J.D. 1986 (d). The aeolian wind tunnel- Saltation similitude. In El Baz, F. and Hassan, M.H.A. (eds). *Physics of Desertification*. Martinus Nijhoff. pp. 372-384.
- Iversen, J. and White, B.R. 1982. Saltation Threshold on Earth, Mars and Venus. *Sedimentology*. 29: 111-119.
- Iversen, J., Greeley, R., Pollack, J. and White, B.R. 1973. Simulation of Martian Eolian Phenomena in the Atmospheric Wind Tunnel, Space Simulation. *NASA Speical Publication*. SP-36: 191-213.
- Iversen, J., Pollack, J., Greeley, R. and White, B.R. 1976. Saltation Threshold on Mars: the Effect of Interparticle Force, Surface Roughness and Low Atmosphere Density. *Icarus*. 29: 381-393.
- Ives, R.L. 1959. Shell Dunes of the Sonoran Shore. *American Journal of Science*. 257: 449-457.
- Ivtchenko, A. 1908. La Mobilites des Dunes. *Annuaire Geologique de la Russie*. 9: 224-255.
- Ivtchenko, A. 1910(a). Sur la Morphologie des Mers de Barkhanes. *Annuaire Geologique de la Russie*. 12(7-8): 239-249.
- Ivtchenko, A. 1910(b). La Stratification dans les Depots Eoliens. *Annales Geologiques de la Russie*. 12(5-6): 145-153.
- Izmaitow, B. 1975. Genezoi i Wiek Wydm Puszcz Niepotomickiej. (Origin and Age of the Sand Dunes in the Niepolomicka Primeval Forest). *Folia Geographica, Series Geographica - Physica*. 9: 43-62.
- Izmaitow, B. 1978. Problematyka Eoliczna w Badaniach Geomorfologicznych Uniwersytetu Lajos Kossutha w Debrecynie. (Eolian Problems in Geomorphological Investigations of Lajos Kossuth University in Debrecin) *Przegląd Geograficzny*. 50(3): 509-514.
- Izmaitow, B. 1984. Eolian Processes in Alpine Belts of the High Tatra Mountains, Poland. *Earth Surface Processes and Landforms*. 9(2): 143-151.
- Jackel, D. 1980. Die Bildung von Barchanen in Faya - Largeau, Republique du Tchad. *Zeitschrift fur Geomorphologie*. 24(2): 141-159.
- Jackson, M.L. 1974. *Eolian Additions to Soil*. Department of Soil Science, Wisconsin University, Madison. 13 p.
- Jahn, A. 1956. Geomorphology and Quaternary History of the Lublin Plateau (in Polish). *Polska Akademia Nauk, Instytut Geografii, Prace Geograficzne* 7. 453 p.
- Jahn, A. 1972. The Contemporary Eolian Processes in the Cultivated Areas of Poland. *Acta Geographica Debrecina*. 17: 193.
- Jania, J. and Szczypek, T. 1980. Proba Rozpoznania Osadow i Form Eolicznych Wybranych Obszarów Wyzyny Slaskiej za Pomoca Interpretacji Zdjec Lotniczych. *Fotointerpretacja w Geografii*. 4(14): 25-40.
- Jaskowi, B. and Kowalski, B. 1977. Skald Mechaniczny i Obrobka Wydmowcyk Pustyni Registan w Afganistanie. (Size Frequency and Rounding of Dune Sands of The Registan Desert in Afghanistan). *Czasopismo Geograficzne*. 48(4): 397-412.
- Jauhainen, E. 1970. Über den Boden fissilier Dunen in Finnland. *Fennia*. 100(3): 1-32.
- Jawad, A.A. and Al-Ani, R.A. 1983. Sedimentological and Geomorphological Study of Sand Dunes in the Western Desert of Iraq. *Journal of Arid Environments*. 6(1): 13-32.
- Jennings, J.N. 1957. On the Orientation of Parabolic or U-Dunes. *Geographical Journal* 122(4): 474-480.
- Jennings, J.N. 1967. Cliff-Top Dunes. *Australian Geographical Studies*. 5: 40-49.
- Jennings, J.N. 1968. A Revised Map of the Desert Dunes of Australia. *Australian Geographer*. 10: 408-409.
- Jennings, J.N. 1975. Desert Dunes and Estuarine fill in the Fitzoy Estuary, North-Western Australia. *Catena*. 2: 215-262.
- Jennings, J. and Hagedorn, H. 1983(a). (eds). Dunes: Continental and Coastal. *Zeitschrift Fur Geomorphologie, Supplement*. 45, 319 p.

- Jennings, J. and Hagedorn, H. 1983(b). Introduction to Dunes: Continental and Coastal. *Zeitschrift Fur Geomorphologie, Supplement*. 45: 1-6.
- Jensen, J.L. and Sorensen, M. 1983. On the Mathematical Modeling of Aeolian Saltation. In Sumer, B.M. and Muller, A. (eds). *Mechanics of Sediment Transport*. Proceedings Euromech 156: 65-72.
- Jensen, J.L., Rasmussen, K.R., Sorensen, M. and Willetts, B.B. 1982. The Hanstholm experiment 1982. Sand grain saltation on a beach. *Department of Theoretical Statistics. University of Aarhus, Research Report 125*.
- Jensen, J.L. and Sorensen, M. 1985. Estimation of some aeolian saltation transport parameters: a reanalysis of Williams data. *Department of Theoretical Statistics, University of Aarhus, Research Report 131*.
- Jensen, N.O. and Zeman, O. 1985. Perturbations to mean wind and turbulence in flow over topographic forms. In: *Proceedings of International Workshop on the Physics of Blown Sand*. Department of Theoretical Statistics. University of Aarhus. 351-368.
- Jentsch, K.A. 1900. Die Geologie der Dunen. In Gerhardt, P. *Handbuch des Deutschen Dunenbaues*. Berlin: Parey. pp. 1-24.
- Johnson, R.B. 1967. The Great Sand Dunes of Southern Colorado. *United States Geological Survey, Professional Paper*. 575-C: 177-183.
- Johnson, R.B. 1968. The great sand dunes of southern Colorado. *Mountain Geologist*. 5(1): 23-29.
- Johnson, R.B. 1971. The Great Sand Dunes of Southern Colorado. Guidebook of the San Luis Basin, Colorado. *New Mexico Geological Survey, Annual Field Conference Guidebook*. 22: 123-128.
- Johnstone, W.M. and Wilkinson, J.C. 1960. Some Geographical Aspects of Qatar. *Geographical Journal*. 126: 442-450.
- Jonassen, H. 1954. Dating of Sand Drift East of Ulfborg. *Botanisk Tidsskrift*. 51: 134-140.
- Jones, B.R. 1959. *A Sedimentary Study of Dune Sands, Lamb and Bailey Counties, Texas and White Sands National Monument, New Mexico*. Texas Technical University, MSc Thesis.
- Jones, C.R. 1982. The Kalahari of Southern Africa. *Striae*. 17: 20-34.
- Jones, D.J. 1953. Gypsum Oolite Dunes - Great Salt Lake Desert, Utah. *American Association of Petroleum Geologists, Bulletin*. 37(11): 2530-2538.
- Jones, J.R. and Willetts, B.B. 1979. Errors in Measuring Uniform Aeolian Sand Flow by Means of an Adjustable Trap. *Sedimentology*. 26: 463-468.
- Jordan, W.M. 1965. Prevalance of Sand Dune Types in the Sahara (abs). *Geological Society of America, Special Publication*. 82: 104-105.
- Jordan, E. 1982. Das Ausmass von Vezenten Sandverlagerungen in Bolivianischen Dunengebieten - Quantitative Luftbildauswertungen mit dem Rechnergestutzten Stereointerpretationsgeret Stereocord G2 und Ihre Wissenschaftliche und Praxisrelevante Deutung. *Zeitschrift Fur Geomorphologie, Supplement*. 43: 183-202.
- Jorre, G. 1935. Les Formes de Relief dans les Steppes Desertiques de l'Asie Centrale Russe. *Annales de Geographie*. 44: 317-321.
- Jungerius, P.D., Verheggen, A.J.T. and Wiggers, A.J. 1981. The Development of Blowouts in 'De Blink', a Coastal Dune Area near Noordwijkerhout, the Netherlands. *Earth-Surface Processes and Landforms*. 6: 375-396.
- Jutson, J.T. 1918. The Sand Ridges, Rock Floors and other Associated Features at Gonarrie in Sub-Arid Western Australia. *Royal Society of Victoria, Proceedings*. 31: 113-128.
- Jutson, J.T. 1934. *The Physiography of Western Australia*. Geological Survey of Western Australia, Bulletin 61.
- Kadar, L. 1934. A Study of the Sand Sea in the Libyan Desert. *Geographical Journal*. 83: 470-478.
- Kadar, L. 1938. Die Periglazialen Binnewindunen des Norddeutschen und Polnischen Flachlandes. *Congres International de Geographie, 15th, Amsterdam, Comptes Rendus*. 1: 167-183.
- Kadar, L. 1977. *Natural Systems of Eolian Landforms*. (Leo Kanner Associates, Redwood City, California). 51 p. Translated from *Foldrafzi Ertesito*. 15(4), 1966, 413-448.
- Kadib, A.L. 1963. Sand transport by wind, studies with sand 0.145 mm diameter. *University of California, Hydraulic Engineering Laboratory, Wave Research Project*. HEL-2-5.
- Kadib, A.L. 1965. A Function of Sand Movement by Wind. *University of California, Berkeley, Hydraulic Engineering Laboratory, Technical Report*. HEL-2-12. 91 p.

- Kaiser, E. 1926(a). Hohenschichtenkarte der Deflationslandschaft in der Namib, Sudwestafrika. *Bayerische Akademie der Wissenschaften, Abhandlungen*, 30.
- Kaiser, E. 1926(b). *Die Diamantenwüste Sudwestafrika*. Berlin: Reimer, 2 Vols.
- Kaldi, J., Krinsley, D.H. and Lawson, D. 1979. Experimentally Produced Aeolian Surface Textures on Quartz Sand Grains from Various Environments. In Whalley, W.B. (ed). *Scanning Electron Microscopy in the Study of Sediments, Symposium Proceedings*. pp. 261-274.
- Kalinske, A.A. 1943. Turbulence and the Transport of Sand and Silt by Wind. *New York Academy of Science, Annals*. 44: 41-54.
- Kamel, A.F., Al-Rakaiby, M.M and Al-Kassas, I.A. 1982. Photo Interpretation of Sand Dune Belts in Northwestern Sinai. *Egyptian Journal of Geology, Special Issue*. 1: 47-56.
- Kamel, K. 1953. Sand Dunes in the Kharga Oasis. *Societe Royale de Geographie d'Egypte, Bulletin*. 25: 77-80.
- Kamichika, M., Matsuda, A. and Hayakwa, S. 1981. Micrometeorological characteristics in a sand dune. *Tottori University, Sand Dune Research Institute, Bulletin* 20: 1-9.
- Kampe, H.W.K. 1979. Aolische abtragungs- und akkumulationsformen in den nort- und mittelamerikanischen Trockengebieten. *Staatsarbeit am Geographischen Institut der Universität Würzburg*. 92 p.
- Kanter, H. and Schiffers, H. 1973. Der Suedosten und Osten des Libyschen Raumes. In Schiffers, H. (ed). 1. *Die Saharan und ihre Randgebiete Darstellung eines Natur-Grossraumes*; 3. *Band Regionalgeographie*. IFO Institut fuer Wirtschaftsforschung Muenchen Afrika-Studien 62: 370-423.
- Karman, T. von. 1953. Considerations Aerodynamiques sur la Formation des Ondulations du Sable. In *Action Eoliennes*. Centre National de Recherches Scientifique, Paris, Colloques Internationaux. 35: 103-.
- Kaubler, R. 1974. Rezente Aeolische Prozesse Zwischen Mittlerer Elbe und Mittlerer Oder, ein Kurzbericht. (Recent Eolian Processes between the Central Elbe and the Central Oder; a Short Note). *Akademiya der Wissenschaften in Goettingen Mathematisch-Physikalische Klasse Abhandlungen*. 3(29): 226-229.
- Kaul, R.N. (ed). 1970. *Afforestation in Arid Zones*. The Hague: Junk.
- Kaul, R.N. and Thalen, D.C.P. 1979. South-West Asia. In Goodall, D.W., Perry, R.A. and Howes, K.M.W. (eds). *Arid Land Ecosystems; Structure, Functioning and Management, Vol. 1*. International Biological Programme, Cambridge University Press. pp. 213-271.
- Kawada, S. 1953. Quelques Experiences sur l'Entrainement du Sable par le Vent. In *Actions Eoliennes*. Centre National de Recherches Scientifiques, Paris, Colloques Internationaux. 35: 109.
- Kawamura, R. 1951. Study on Sand Movement by Wind. *Institute of Science and Technology, Tokyo, Report*. 5 (314).
- Kawamura, R. 1953. Movement du Sable sous l'Effect du Vent. In *Actions Eoliennes*. Centre National de Recherches Scientifiques, Paris, Colloques Internationaux. 35: 117-151.
- Kayser, K. 1973. Beitrage zur Geomorphologie der Namib - Kustenwüste Begleitworte zu Einer Skizze ihrer Geomorphologischen Landschaftseinheiten. *Zeitschrift fur Geomorphologie, Supplement*. 17: 156-167.
- Keech, C.F. and Bentall, R. 1971. Dunes on the Plains - The Sand Hills Region of Nebraska. *Conservation and Survey Division Resources Report, Nebraska University*. 223 p.
- Keilack, K. 1918. Die Grossen Dunengebiete Norddeutschlands. *Deutsche Geologische Gesellschaft, Zeitschrift B. Monatsbericht*. 69: 2-19.
- Keller, W.D. 1945. Size Distribution of Sand in Some Dunes, Beaches and Sandstones. *American Association of Petroleum Geologists, Bulletin*. 29: 215-221.
- Kelly, R.W. 1962. Michigan's Sand Dunes, a Geologic Sketch. *Michigan Geological Survey Division*. 22 p.
- Kennedy, J.F. 1964. Formation of sediment ripples in closed rectangular conduits and in the desert. *Journal of Geophysical Research*. 69 (8): 15-17.
- Kennedy, J.F. 1969. The formation of sediment ripples, dunes and antidunes. *Annual Review of Fluid Mechanics*. 1: 147-168.
- Kepeczynski, K. 1958. Flora und Geschichte des Moores Siwe Bagno in der Tucheler Heide (in Polish). *Zeszyty Naukowe Mniwersytetu M. Propernika. Torun*.
- Kerr, R.C. and Nigra, J.O. 1952. Eolian Sand Control. *American Association of Petroleum Geologists, Bulletin*. 36(8): 1541-1573.

- Kes, A.S. 1973. Causes of Paleogeographic Changes in the Deserts of Central Asia (abs). *Congress of the International Union for Quaternary Research*. 9: 187.
- Kes, A.S. and Fedorovic, B.A. 1977. Entstehung, Transport und Sedimentation Aolischer Feinerde. *Petermanns Geographische Mitteilungen*. 121(3): 189-190.
- Khalaf, F. and Al-Hashash, M. 1983. Aeolian Sedimentation in the Northwestern Part of the Arabian Gulf. *Journal of Arid Environments*. 6: 319-332.
- Khalaf, F.I. and Gharib, I.M. 1985. Roundness parameters of recent aeolian sand deposits in Kuwait. *Sedimentary Geology*. 45: 147-158.
- Khanna, S.S., Ahuja, R.L., Manchanda, M.L., Sangwan, B.S. and Goyal, V.P. 1977. Soil Landscape Relationship of the Dune-Infected Precambrian Pediplain area in Southwestern Part of Haryana. *Annals of Arid Zone*. 16(2): 201-212.
- Kharin, N.G., Gadziminskii, P.Z., Kurbanmuradov, K. and Kiril'tseva, A.A. 1980. Use of Satellite Photographs for Studying Deserts. *Problems of Desert Development*. 4: 1-8.
- Khobzi, J. 1981. Los Campos de Dunas del Norte de Colombia y de las llanos de la Orinoquia, Columbia y Venezuela. *Revista CIAF*. 6(1-3): 257-292.
- Khodzhayev, Ch. 1974. Landscape Regionalization of Sand Desert Territories, the Southeastern Kyz Ikums (in Russian). *Vsesoyuznoye Geograficheskoye Obshchestvo Izvestiya*. 106(5): 415-419.
- Khodzhayev, Ch. 1978. Relief and Depth of Older Eolian Sands in Southeastern Karakum (in Russian). *Problemy Osvoeniya Pustyn', Akademiya Nauk Turkmensoi SSR*. 6: 31-37.
- Khodzhayev, Ch. 1983(a). Dynamics of Barchan Sands in Karakum Canal Zone (in Russian). *Problemy Osvoeniya Pustyn', Akademiya Nauk Turkmensoi SSR*. 4: 51-55.
- Khodzhayev, Ch. 1983(b). Dynamics of Barchan Sands in the Karakum Canal Zone. *Problems of Desert Development*. 4: 53-58.
- Kimura, M., Otsuki, H. and Kondo, Y. et al. 1970. On the Ancient Sand Dunes in the Takachi Plain, Hokkaido, Part 1. (In Japanese). *Quaternary Research, (Japanese Association for Quaternary Research)*. 9(2): 41-50.
- King, D. 1956. The Quaternary Stratigraphic Record at Lake Eyre North and the Evolution of Existing Topographic Forms. *Royal Society of South Australia, Transactions*. 79: 93-103.
- King, D. 1960. The Sand Ridge Deserts of South Australia and Related Aeolian Landforms of Quaternary Arid Cycles. *Royal Society of South Australia, Transactions*. 83: 99-108.
- King, L.C. 1939. *South African Scenery*. Edinburgh, 2nd Ed.
- King, L.C. 1952. Vegetation Patterns Revealing Former Kalahari Dune Sands in Southern Rhodesia. *South African Journal of Science*. 48: 374-375.
- King, L.C. 1978. The Geomorphology of Central and Southern Africa. In Werger, M.J.A. (ed). *Biogeography and Ecology of Southern Africa*. Monographiae Biologicae. 31: 1-18.
- King, W.H.J. 1912. Travels in the Libyan Desert. *Geographical Journal*. 39: 133-137.
- King, W.H.J. 1916. The Nature and Formation of Sand Ripples and Dunes. *Geographical Journal*. 47: 189-209.
- Kinzi, H. 1958. Die Dunen in der Kustenlandschaft von Peru. *Geographische Gesellschaft, Wien, Mitteilungen*. 100(1-2): 5-17.
- Klammer, G. 1982. Die Palaowüste des Pantanal von Mato Grosso und die Pleistozäne Klimageschichte der Brasilianische Randtropen. *Zeitschrift für Geomorphologie*. 26: 393-416.
- Klemsdal, T. 1969. Eolian Landforms in Parts of Norway. *Norsk Geografisk Tidsskrift*. 23: 49-66.
- Knapp, J.L. 1983. Upland Wetlands Created by Eolian Sand Deposits on the Iowan Erosional Surface (abs). *Proceedings of the 95th Session of the Iowa Academy of Science, Abstracts of Papers*. 90(1).
- Knott, P. 1979. The structure and pattern of dune forming winds. *PhD Thesis, University of London*.
- Kobendza, J. 1970. Role de la Vegetation dans la Formation des Dunes. 8th Congress International Quaternary Association, Paris 1969. *Geographia Polonica*. 17: 283-292.
- Kobendza, J. and Kobendza, R. 1958. Les Dunes Eparpillées de la Forêt de Kampinos (in Polish). In Galon, R. (ed). *Wydmu Średładowe Polski*. PWN, Warszawa. 1: 95-168.

- Kobendzina, J. 1961. Attempt to Date Dunes in the Kampinos Primaeval Forest. *Przegląd Geograficzny*. 33: 383-399. "Accompanying Phenomena" *Ibid.* pp. 539-542.
- Kobendzina, J. 1969. Rola Roslinności w Powstawaniu Wydm Srodladowych. (Effect of Vegetation on the Formation of Inland Dunes). In Galon, R. (ed). *Procesy i Formy Wydmowe w Polsce*. Polska Akademia Nauk, Instytut Geografii, Prace Geograficzne, Warsaw. 75: 75-100.
- Kobendzina, J. and Urbaniak, U. 1969. Bibliografia Wydmowa Polski. (Polish Bibliography of Dunes). In Galon, R. (ed). *Procesy i Formy Wydmowe w Polsce*. Polska Akademia Nauk, Instytut Geografii, Prace Geograficzne, Warsaw. 75: 369-387.
- Kocurek, G. 1981. Significance of Interdune Deposits and Bounding Surfaces in Aeolian Dune Sands. *Sedimentology*. 28: 753-780.
- Kocurek, G. 1986. Origins of low angle stratification in aeolian deposits. In: Nickling, W.G. (ed). *Aeolian Geomorphology. Proceedings of the 17th Annual Binghamton Geomorphology Symposium*. Allen and Unwin. pp177-194.
- Kocurek, G. and Dott, R.H. 1981. Distinctions and Uses of Stratification Types in the Interpretation of Eolian Sand. *Journal of Sedimentary Petrology*. 51(2): 579-595.
- Kocurek, G. and Fielder, G. 1982. Adhesion Structures. *Journal of Sedimentary Petrology*. 52(4): 1229-1241.
- Kocurek, G. and Nielson, J. 1984. Eolian Sheet Sands: Genesis, Maintenance and Variations. *Society of Economic Paleontologists and Mineralogists*, First Annual Midyear Meeting. p. 44.
- Kocurek, G. and Nielson, J. 1985. Eolian Reservoir Characteristics Predicted from Dune Type (abs). *American Association of Petroleum Geologists, Bulletin*. 59: 274.
- Kocurek, G. and Nielson, J. 1986. Conditions favourable for the formation of warm-climate aeolian sand sheets. *Sedimentology*, 33: 795-816.
- Kocurek, G. and Oakes, C. 1985. Migration of Dunes and Ergs - Bounding Surfaces Revisited (abs). *Society of Economic Paleontologists and Mineralogists*, Second Annual Midyear Meeting.
- Kolbuszewski, J. 1950. Notes on the Deposition of Sands. *Research (London)*. 3(10): 478-483.
- Kolbuszewski, J. 1953. Porosity of Wind Deposited Sands. *Geological Magazine*. 90: 48-56.
- Kolbuszewski, J., Nadolski, L. and Dydański, Z. 1950. Porosity of Wind Deposited Sands. *Geological Magazine*. 87: 433-435.
- Kolm, K.E. 1973. ERTS MSS Imagery Applied to Mapping and Economic Evaluation of Sand Dunes in Wyoming. *Contributions to Geology. University of Wyoming, Laramie*. 12(2): 69-76.
- Kolm, K.E. 1974. ERTS MSS Imagery Applied to Mapping of Sand Dunes in Wyoming. In Wilson, M. (ed). *Applied Geology and Archeology: The Holocene History of Wyoming*. Wyoming Geological Survey Report. 10: 34-39.
- Kolm, K.E. 1982. Predicting Wind Velocities from Sand Dune and Draa Spacings Determined by Fourier Analysis. In Marrs, R.W. and Kolm, K.E. (eds). *Interpretation of Windflow Characteristics from Eolian Landforms*. Geological Society of America, Special Paper. 192: 19-23.
- Kolm, K.E. 1985. Predicting the surface wind characteristics of southern Wyoming from remote sensing and eolian geomorphology. In *Proceedings of International Workshop on the Physics of Blown Sand. Department of Theoretical Statistics. University of Aarhus*. 421-482.
- Kolm, K.E. and Marrs, R.W. 1977. Areas of High Wind-Energy Located by Remote Observation of Eolian Geomorphic Features (abs). *Geological Society of America, Abstracts with Programs*. 9(7): 1055-1056.
- Kolm, K.E., Marrs, R.W., Marwitz, J. and Fletcher, J. 1975. *Evaluation of Wind-Energy Sites From Aeolian Geomorphic Features Mapped from Landsat Imagery, First Results*. Wyoming University, Laramie, 39 p.
- Konecka-Betley, K. 1977. Soils of the Dune Areas of Central Poland in the Late Glacial and Holocene. *Folia Quaternaria*. 49: 47-62.
- Konishchev, V.N. and Lyubimov, B.P. 1968. Drevniye Eolovyye Formy Rel'yefa v Bol'shezemel' Skoy Tundre. (Ancient Eolian Relief Forms in the Bolshezemelskaya Tundra). *Moskovskiy Universitet Vestnik, Seriya Geografii*. 23(2): 53-56.
- Konopliova, V.I., Seliverstov, Yu.P. and Filatov, O.M. 1983(a). The Quaternary Cover in Africa 1. General Problems (in Russian). *Vestnik Leningradskogo Universiteta Geologiya - Geografiya*. 12: 38-48.

- Konopliova, V.I., Seliverstov, Yu. p. and Filatov, O.M. 1983(b). The Quaternary Cover in Africa 2. (in Russian). *Vestnik Leningradskogo Universiteta Geologiya - Geografiya*. 18: 41-53.
- Korn, J. 1919. Über Dunenzüge im Torfe. K. *Preussische Geologische Landesanstalt, Jahrbuch*. 37: 147-156.
- Koscielniak, E. 1973. *Unusual Eolian Deposits on a Volcanic Terrain near Saint Anthony, Idaho*. University of New York at Buffalo. MSc Thesis.
- Kosmowska-Suffczynska, D. 1980. Formy Wydmowe na Sebkha Sabkhet el-Muh w Okolicy Palmyry. (Dune Forms in Sebkha Sabkhet El-Muh in Palmyra Region). In Kurlinski, A. et al (eds). *Prace i Studia Geograficzne Tom. 2*, Warsaw University Press. pp. 177-188.
- Koster, E.A. 1978. De Stufzanden van de Veluwe; Een Fysisch-Geografische Studie. (The Eolian Drift Sands of the Veluwe, Central Netherlands; a Physical Geographical Study). *Publicaties van het Fysisch-Geografisch en Bodemkundig Laboratorium van de Universiteit van Amsterdam*. 27. 195 p.
- Koster, E.A. 1982. Terminology and Lithostratigraphic Division of (Surficial) Sandy Eolian Deposits in The Netherlands: an Evaluation. *Geologie en Mijnbouw*. 61(2): 121-129.
- Koster, E.A. 1984. Periglacial dune formation and niveoeolian features as exemplified in the Kobuk sand dunes, Alaska. Abstract In Pewe, T.L. (ed) *4th International Conference on Permafrost, Final Proceedings. National Academic Press, Washington, D.C.* p 323.
- Kostyukovskiy, V.I. 1974. Sluchai Obrazovaniya Pseudoparabolicheskikh Form i Parallelnykh Vetrui Peschanykh Gryad v Pustynnyakh Sredney Azii. (Cases of Formation of Pseudo-Parabolic Forms Parallel to Wind Direction Sand Ridges in Deserts of Central Asia). *Geomorfologiya*. 3: 63-68.
- Kovda, V.A. 1959. *Ocherki Prirody i Pochv Kitaia. (Studies on the Soils of China)*. Akademiia Nauk SSSR. 455 p.
- Kowalkowski, A. 1977. A Paleopedological Investigation of Dunes at Pomorsko. *Quaestiones Geographicae*. 4: 43-50.
- Kozarski, S., Nowaczyk, B., Rotnicki, K. and Tobolski, K. 1970. Problems Concerning the Eolian Phenomena in Middle-West Poland with Special Reference to the Chronology of Phases of Eolian Activity. *Geographica Polonica*. 17.
- Kozarski, S. and Tobolski, K. 1968. Holocenske Przeobrazenia Wydm Srodladowych w Wielkopolsce w Swietle Badan Geomorfologicznych i Palinologicznych. (Holocene Transformations of Inland Dunes in Wielkopolska in the Light of Geomorphological and Palynological Investigations). *Folia Quaternaria*. 29.
- Krafewski, K. 1977. Poznoplejstocenske i Holocenske Procesy Wydmotworcze w Pradolinie Warszawsko-Berlinskiej w Widlach Warty i Neru. (Late Pleistocene and Holocene Dune-Forming Processes in the Warsaw-Berlin Prodolina). *Acta Geographica Lodziensia* 39. 87 p.
- Kretschmer, H., Arndt, K. and Mueller, H.M. 1971. Untersuchungen an Duenen im Gebiet des Daenengrunds bei Zempin, Usedom. (Investigation of the Dunes near Zempin, Usedom). *Petermanns Geographische Mitteilungen*. 115(1): 9-15.
- Krinsley, D.H. and Cavellero, L. 1970. Scanning Electron Microscope Examination of Periglacial Eolian Sands from Long Island, New York. *Journal of Sedimentary Petrology*. 40(4): 1345-1350.
- Krinsley, D.H. and Doornkamp, J.C. 1973. *Atlas of Quartz Sand Surface Textures*. Cambridge University Press, Earth Science Series. 91 p.
- Krinsley, D. and Greeley, R. 1986. Individual particles and Martian aeolian action-a review. *Sedimentary Geology*. 47: 167-189.
- Krinsley, D. H. and McCoy, F. 1979. Aeolian Quartz Sand and Silt. In Whalley, W.B. (ed). *Scanning Electron Microscopy in the Study of Sediments, Symposium Proceedings*. pp. 249-260.
- Krinsley, D.H. and Smalley, I.J. 1972. Sand. *American Scientist*. 60(3): 286-291.
- Krinsley, D.H. and Takahashi, T. 1962. Electromicroscopy of the Surface Textures of Natural and Artificial Sand Grains (abs). *Geological Society of America, Special Paper*. 68: 213-214.
- Krinsley, D. and Wellendorf, W. 1980. Wind velocities determined from the surface textures of sand grains. *Nature*. 283: 372-373.
- Krinsley, D.H., Greeley, R. and Pollack, J. 1979. Abrasion of Wind Blown Particles on Mars: Erosion of Quartz and Basaltic Sand Under Simulated Martian Conditions. *Icarus*. 39: 364-384.

- Krinsley, D.H., Woo, C.C. and Stoertz, G.E. 1968. Geologic Characteristics of Seven Australian Playas. In Neal, J.T. (ed). *Playa Surface Morphology: Miscellaneous Investigations*. Air Force Cambridge Research Laboratories Environmental Research Papers. 283: 59-103.
- Kristapavichus, G. 1968. Morfoligiya Meterikovykh Dyun v Rayone Grodno-Varena. (Morphology of Continental Dunes in the Grodno-Varena Area). *Moskovskiy Universitet Vestnik, Seriya Geografii*. 23(3): 143-145.
- Krol, T. 1972. Wydmy Okolic Zailikowa, Nizina Sandomierska. (Dunes in the Environs of Zaklikow, Sandomierz Lowland). *Annales Universitatis Mariae Curie - Sklodowska*. 27: 21-46.
- Krumbein, W.C. 1941. Measurement and Geologic Significance of Shape and Roundness in Sedimentary Particles. *Journal of Sedimentary Petrology*. 11: 64-72.
- Krupinski, K.M. 1980. Wstepna Charakterystyka Gleb i Roslinnosci Okolic Palmyry, Tadmor, w Syrii. (Preliminary Characteristics of Soils and Vegetation of Palmyra Region, Tadmor, in Syria). In Kurlinski, A. et al (eds). *Prace i Studia Geograficzne Tom. 2*, Warsaw University Press. pp. 221-227.
- Krygowski, B. 1958. Quelques Donnees sur les Sables des Dunes Continentales. In Galon, R. (ed). *Wydmy Srodladowe Polski*. PWN, Warszawa.
- Kuenen, P.H. 1959. Sand, its Origin, Transportation, Abrasion and Accumulation. *Alex du Toit Memorial Lecture no. 6.*, Geological Society of South Africa.
- Kuenen, P.H. and Perdok, W.G. 1961. Frosting of Sand Grains. *Koninklijke Nederlandse Akademie van Wetenschappen, Proceedings*. 64: 343-345.
- Kuenen, P.H. and Perdok, W.G. 1962(a). Experimental Abrasion. 4: Eolian Action. *Journal of Geology*. 68: 427-449.
- Kuenen, P.H. and Perdok, W.G. 1962(b). Experimental Abrasion. 5: Frosting and Defrosting of Quartz Grains. *Journal of Geology*. 70: 648-658.
- Kuhlman, H. 1957. Microenvironments in a Danish Dune Area, Raberg Mile. *Meddelesker fra Dansk Geologisk Forening*. 14: 253-258.
- Kvartsova, V.I., Kuzina, T.B. and Lyuttsau, S.V. 1976. Vozmozhnosti Primeneniya Kosmicheskikh Fotosminkov I Vysotnykh Aerofotosnimkov Dlya Deshifirovaniya Eolovogo Rel'yela. (Possibilities of Space and High-Altitude Aerial Photography Application to the Eolian Topography Deciphering). *Geomorfologiya*. 1: 51-59.
- Kwakernaak, C., Bolt, A.J.J., Levelt, T.W.M. 1979. Voorne - Putten, een Landschapsecologisch Onderzoek. (Voorne - Putten, a Landscape - Ecological Study). *Geografisch Tijdschrift*. 13(2): 116-141.
- Lai, R.J. and Wu, J. 1978. Wind erosion and deposition along a coastal sand dune. *Sea Grant Program, University of Delaware*, DEL-SG-10-78. 26 p.
- Lamare, P. 1933. Travaux Geographiques et Geologiques Recents sur l'Arabie Meridionale. *Annales de Geographie*. 42(240): 623-630.
- Lancaster, I.N. 1978. Composition and Formation of Southern Kalahari Pan Margin Dunes. *Zeitschrift fur Geomorphologie*. 22(2): 148-169.
- Lancaster, N. 1979. *Quaternary Environments in the Arid Zone of Southern Africa*. Department of Geography and Environmental Studies, University of Witwatersrand, Occasional Paper 22.
- Lancaster, N. 1980(a). Dune Forms and Processes in the Namib Sand Sea. *Namib Bulletin*. (Supplement to the Transvaal Museum Bulletin). 3: 3-5.
- Lancaster, N. 1980(b). The Formation of Seif Dunes from Barchans - Supporting Evidence for Bagnold's Model from the Namib Desert. *Zeitschrift fur Geomorphologie*. 24: 160-167.
- Lancaster, N. 1980(c). Dune Systems and Paleoenvironments in Southern Africa. *Proceedings of the 5th South African Quaternary Association Conference, Palaeontologia Africana*. 23: 185-189.
- Lancaster, N. 1981(a). Aspects of the Morphometry of Linear Dunes of the Namib Desert. *South African Journal of Science*. 77: 366-368.
- Lancaster, N. 1981(b). Paleoenvironmental Implications of Fixed Dune Systems in Southern Africa. *Palaeogeography, Palaeoclimatology, Palaeoecology*. 33: 327-346.
- Lancaster, N. 1981(c). Grain Size Characteristics of Namib Desert Linear Dunes. *Sedimentology*. 28: 115-122.

- Lancaster, N. 1982(a). Dunes on the Skeleton Coast, Namibia (South West Africa): Geomorphology and Grain Size Relationships. *Earth-Surface Processes and Landforms*. 7: 575-587.
- Lancaster, N. 1982(b). Linear Dunes. *Progress in Physical Geography*. 6: 476-504.
- Lancaster, N. 1982(c). Spatial Variation in Linear Dune Morphology and Sediments in the Namib Sand Sea. *Proceedings of the 6th South African Quaternary Association Conference, Paleocology of Africa*. 15: 173-182.
- Lancaster, N. 1982(d). Spatial Variation in Grain Size and Sorting in the Namib Sand Sea (abs). *International Association of Sedimentologists, Eleventh International Congress*. Hamilton, Ontario.
- Lancaster, N. 1983(a). Controls of Dune Morphology in the Namib Sand Sea. In Brookfield, M.E. and Ahlbrandt, T.S. (eds). *Eolian Sediments and Processes*. Developments in Sedimentology 38. Amsterdam: Elsevier. pp. 261-284.
- Lancaster, N. 1983(b). Linear Dunes of the Namib Sand Sea. *Zeitschrift fur Geomorphologie, Supplement*. 45: 27-49.
- Lancaster, N. 1984. Aridity in Southern Africa: Age, Origins and Expression in Landforms and Sediments. In Vogel, J.C. (ed). *Late Cainozoic Palaeoclimates of the Southern Hemisphere*. Proceedings of the International Symposium held by the South African Society for Quaternary Research. Rotterdam: A.A. Balkema. pp. 453-544.
- Lancaster, N. 1985(a). Variations in Wind Velocity and Sand Transport on the Windward Flanks of Desert Dunes. *Sedimentology*. 32: 581-593.
- Lancaster, N. 1985(b). Winds and sand movements in the Namib Sand Sea. *Earth Surface Processes and Landforms*. 10: 607-619.
- Lancaster, N. 1986(a). Grain-size characteristics of linear dunes in the southwestern Kalahari. *Journal of Sedimentary Petrology*. 56 (3): 395-400.
- Lancaster, N. 1986(b). Pans in the southwestern Kalahari: a preliminary report. *Palaeocology of Africa*. 17: 59-68.
- Lancaster, N. 1986(c). Development of large aeolian bedforms: evidence from the Namib and Gran Desierto Sand Seas. *Abstracts 12th International Congress on Sedimentology*. 173.
- Lancaster, N. 1986(d). Dynamics of star dunes: a first approximation. *Abstracts 12th International Congress on Sedimentology*: 173.
- Lancaster, N. and Ollier, C.D. 1983. Sources of Sand for the Namib Sand Sea. *Zeitschrift fur Geomorphologie, Supplement*. 45: 71-83.
- Landic, A.P. 1979. Dynamics of Barkhan Relief and Vegetation (in Russian). *Problemy Osvoeniya Pustyn', Akademiya Nauk Turkmenkoi SSR*. 5: 66-68.
- Landsberg, H. 1942. The structure of wind over a sand dune. *Transactions American Geophysical Union*. 23: 237-239.
- Landsberg, H. and Riley, N.A. 1943. Wind Influences on the Transport of Sand over a Michigan Sand Dune. *University of Iowa, Studies in Engineering, Bulletin*. 27: 342-352.
- Landsberg, S.Y. 1956. The orientation of dunes in Britain and Denmark in relation to wind. *Geological Journal*. 122: 176-189.
- Lang, J. and Pias, J. 1971. Morphogenese 'Dunaire' et Pedogenese dans le Bassin Intramontagneux de Bamian, Afganistan Central. *Revue de Geographie Physique et de Geologie Dynamique*. 13(4): 359-368.
- Lang, S. 1964. Pleistocene Climatic Changes and Evolution of Relief (abs). *International Geographical Congress, 20th, London, Abstracts of Papers*. pp. 66-67.
- Langford-Smith, T. 1982. The Geomorphic History of the Australian Deserts. *Striae*. 17: 4-19.
- Larson, P. 1970. *Deserts of America*. Englewood Cliffs, New Jersey: Prentice-Hall Inc, 340 p.
- Laskowski, K. 1981. Wplyw Wydm i Procesow Eolicznych na Kształtowanie sie Dolin Rzek Nizinnych u Schyłku Pliocenu i w Holocenie. (On the Influence of Dunes and Eolian Processes on Development of Lowland River Valleys in the Latest Pleistocene and Holocene). *Kwartalnik Geologiczny*. 25(2): 399-412.
- Laut, P., Keig, G., Lazarides, N., Loffler, E., Morgule, C., Scott, R.M. and Sullivan, M.E. 1977. *Environments of South Australia, Province 8; Northern Arid*. CSIRO Division of Land Use Research, Canberra.
- Leach, J. 1979. Dune Forms and Patterns of Wind Circulation in the North Polar Region of Mars (abs). *Second International Colloquium on Mars*. NASA Conference Publication. CP-2072: 52.

- Leatherman, S.P. 1978. A new aeolian sand trap design. *Sedimentology*. 25: 303-306.
- Lebedev, V.M. 1978. O Rel'yefe Peschanykh Prostanstv Udmurtii. (Relief of a Sandy Area in Udmurtiya). *Vsesoyuznoye Geograficheskoye Obshchestvo, Izvestiya*. 110(4): 356-358.
- Le Carpentier, C. 1973. Geomorphologie et Eaux Souterraines; Presentation de la Carte Geomorphologique de la Pampa del Tamarugal, Desert Nord Chilien. *Institut Francais pour l'Etudes Andines*. 2(2): 29-57.
- Lee, J.A. 1984. Sand transport on a barchan dune. *Unpublished M.Sc. thesis. University of California, Los Angeles*. 64 p.
- Lehotsky, K. 1972. Sand Dune Fixation in Michigan - Thirty Years Later. *Journal of Forestry*. 70(3): 155-160.
- Le Houerou, H.N. 1979. North Africa. In Goodall, D.W., Perry, R.A. and Howes, K.M.W. (eds). *Arid Land Ecosystems; Structure, Functioning and Management, Vol. 1*. International Biological Programme, Cambridge University Press. pp. 83-107.
- Leistner, O.A. 1967. The Plant Ecology of the Southern Kalahari. *Memoir Botanical Survey of South Africa*. 38. 178 p.
- Leistner, O.A. 1979. Southern Africa. In Goodall, D.W., Perry, R.A. and Howes, K.M.W. (eds). *Arid Land Ecosystems; Structure, Functioning and Management, Vol. 1*. International Biological Programme, Cambridge University Press. pp. 109-143.
- Le Lubre, M. 1950. Une Reconnaissance Aerienne sur l'Edeyen de Mourzouk (Fezzan). *Institut de Recherches Sahariennes, Travaux*. 5: 219-221.
- Le Lubre, M. 1952. Conditions Structurales et Formes de Relief dans le Sahara. *Institut de Recherches Sahariennes, Travaux*. 8: 189-238.
- Lencewicz, S. 1922. Les Dunes Continentales de la Pologne. *Wydmly Srodladowe Polski*. 11: 12-59.
- Leone, G. 1953. Origin and Reclamation of the Dunes in Tripolitania. In *Desert Research, Proceedings, International Symposium, Jerusalem*. Research Council of Israel, Special Publication. 2: 401-403.
- Leontev, O.K. and Foteyeva, N.I. 1965. Proiskozhdeniye i Vozrast Berovskikh Bugrov. *Akademiia Nauk SSR, Izvestiya, Seriya Geograficheskaya*. 2: 9-98.
- Leprun, J.C. 1971. Nouvelles Observations sur Les Formations Dunaires Sableuses Fixees du Ferlo Nord Occidental, Senegal. *Association Senegal, Etude Quaternaire Ouest Africain, Bulletin*. 31-32: 79-81.
- Leser, H. 1971. Die Namib. In Schiffers, H. (ed). *Die Sahara und ihre Randgebiete; Darstellung eines Natur-Grossraumes; 1. Band Physiogeographie*. IFO Institut fuer Wirtschaftsforschung Muenchen Afrika-Studien. 60: 47-51.
- Leser, H. 1972. Bericht Uber eine Forschungszugsreise in Randlandschafir der Kalahari, Sudwest und Sud Afrika. *Die Erde*. 103: 162-178.
- Leser, H. et al. 1976. Methodischin Geomorphologische Probleme des Ariden und Semiariden Zone Suidwestafrika. *Baseler Afrika Bibliographien*. 15.
- Lettau, H. and Lettau, K. 1969. Bulk Transport of Sand by the Barchans of the Pampa de la Joya in Southern Peru. *Zeitschrift fur Geomorphologie*. 13: 182-195.
- Lettau, K. and Lettau, H. 1978. Experimental and Micrometeorological Studies of Dune Migration. In Lettau, H. and Lettau, K. (eds). *Exploring the World's Driest Climate*. Centre for Climatic Research, Institute for Environmental Studies. EIS Report 101: 110-147.
- Lettau, H. and Lettau, K. (eds). 1978. *Exploring the World's Driest Climate*. University of Wisconsin-Madison, Institute for Environmental Studies, IES Report 101, 264 p.
- Lewis, A.D. 1936(a). Roaring Sands from the Kalahari. *South African Geographical Journal*. 19: 33-49.
- Lewis, A.D. 1936(b). Sand Dunes of the Kalahari within the Borders of the Union. *South African Geographical Journal*. 19: 25-57.
- Lewis, P.F. 1960. Linear Topography in the Southwestern Palouse, Washington-Oregon. *Association of American Geographers, Annals*. 50(2): 98-111.
- Lewis, D.W. and Titheridge, D.G. 1978. Small Scale Sedimentary Structures Resulting from Foot Impression in Dune Sands. *Journal of Sedimentary Petrology*. 48(3): 835-838.
- Li, H-F. 1965. The genesis and development of stabilized sand dune soils in the central eastern part of the Moyusu Desert of the Ordos Plateau. *Acta Pedologica Sinica*. 13: 66-76.
- Lichte, M. 1980. Aolische Herkunft der Bodendickung SE-Brasiliens. *Zeitschrift fur Geomorphologie*. 24(3): 356-360.

- Li Hsiao-Fang.** 1965. The Genesis and Development of Stabilized Sand Dune Soils in Central Eastern Part of the Moyusu Desert of the Ordos Plateau (in Chinese). *Acta Pedologica Sinica*. 13(1): 66-76.
- Lindroos, P.** 1972. On the Development of Late Glacial and Post-Glacial Dunes in North Karelia, Eastern Finland. *Finland Commission Geologique, Bulletin* 254. 85 p.
- Lindsey, J.F.** 1973. Reversing Barchan Dunes in Lower Victoria Valley, Antarctica. *Geological Society of America, Bulletin*. 84: 1799-1806.
- Lindsey, J.F., Criswell, D.R., Criswell, T.L. and Criswell, B.S.** 1976. Sound-Producing Dune and Beach Sands. *Geological Society of America, Bulletin*. 87: 463-473.
- Linke, M.** 1968. Ein Weiterer Beitrag zur Frage der Altersstellung der Binnendünen. (Further Contribution to the Problem of Dating Inland Dunes). *Hercynia*. 5(4): 420-436.
- Liu, E.L.** 1952. The Ho-si (Hexi) corridor. *Economic Geography*. 28: 51-56.
- Livingstone, I.** 1986. Geomorphological significance of wind flow patterns over a Namib linear dune. In: Nickling, W.G. (ed). *Aeolian Geomorphology. Proceedings of the 17th Annual Binghamton Geomorphology Symposium*. Allen and Unwin. pp. 97-112.
- Logan, R.F.** 1960. *The Central Namib Desert*. National Academy of Sciences, National Research Council Publication 758. 162 p.
- Logan, R.F.** 1969. Geography of the Central Namib Desert. In McGinnies, W.G. and Goldman, B.J. *Arid Lands in Perspective*. American Association for the Advancement of Science, Washington, D.C. and University of Arizona Press, Tucson. pp. 126-143.
- Logie, M.** 1981. Wind tunnel experiments on dune sands. *Earth Surface Processes and Landforms*. 6: 365-374.
- Lomborunczen, R., Morawski, J. and Pekala, K.** 1976. Charakterystyka Piaskow Eolicznych z Doliny Jezior i Poludniowego Sklonu Changaju, Mongolia. (Characterization of the Eolian Sands from the Lakes Valley and from the Southern Slopes of Khangai, Mongolia). *Annales Universitatis Mariae Curie - Sklodowskiej, Sectio B*. 30-31: 13-35.
- Long, J.T. and Sharp, R.P.** 1964. Barchan-Dune Movement in the Imperial Valley, California. *Geological Society of America, Bulletin*. 75: 149-156.
- Louis, H.** 1929. Die Form der Nord Deutschen Bogendünen. *Zeitschrift für Geomorphologie*. 4: 7-18.
- Lovell, H.L.** 1967. Geology of the Matachewan Area. *Ontario Department of Mines, Geological Report* 51. 61 p.
- Lowman, P.D. Jr.** 1971. *Terrestrial and Lunar Analogies of Martian Topography*. U.S. Goddard Space Flight Center Report. X-644-71-360, 45 p.
- Lustig, L.K.** 1969. Quantitative Analysis of Desert Topography. In McGinnies, W.G. and Goldman, B.J. (eds). *Arid Lands in Perspective*. American Association for the Advancement of Science, Washington, D.C. and University of Arizona Press, Tucson, pp. 45-58.
- Lyczewska, J.** 1968. Le Rapport de l'Accumulation du Loess aux Processus de la Formation des Dunes de la Region de la Ste-Croix. *Symposium sur l'Action du Vent et la Formation du Loess en Milieu Periglaciaire Wurmien*, Wroclaw. *Biuletyn Peryglacjalny*. 20: 221-224.
- Lyles, L. and Krauss, R.K.** 1971. Threshold Velocities and Initial Particle Motion as Influenced by Air Turbulence. *Transactions of the American Society of Agricultural Engineering*. 14: 563-566.
- Lyles, L., Schrand, R.L. and Schneider, N.F.** 1974. How Aerodynamic Roughness Elements Control Sand Movement. *Transactions of the American Society of Agricultural Engineering*. 17: 134-139.
- McCauley, C.K. and Breed, W.J.** 1980. Topographically Controlled Dune Systems on Earth and Mars (abs). In Wirth, P., Greeley, R. and D'Alli, R.E. (eds). *Aeolian Processes and Landforms*. Reports of Planetary Geology Program. NASA TM-81776: 255-56.
- McCauley, C.K. and Cotera, A.S.** 1978. Eolian Deposits of Paiute Trail Point, Arizona (abs). In Greeley, R. and Black, D. (eds). *Abstracts for the Planetary Geology Field Conference on Aeolian Processes*. NASA Publication, TM-78455: 33-34.
- McCauley, C.K., Breed, W.J., Cotera, A.S., Gray, M., Axelrod, R. and Johnson, A.P.** 1980. Climbing and Falling Dunes in the Painted Desert of Arizona; Comparison with Mars (abs). *Reports of Planetary Geology Program*. NASA TM-82385.

- McCauley, J.F., Breed, C.S. and Grolier, M.J. 1981. The Gilf Kebir and the Western Desert of Egypt; Insights into the Origin of the North Polar Erg on Mars (abs). *Reports of Planetary Geology Program*. NASA TM-82385: 312-313.
- McCauley, J.F., Breed, C.S., Grolier, M. and Collins, P. 1979. The Eolian Features of the North Polar Region of Mars (abs). *Second International Colloquium on Mars*. NASA Conference Publication. CP-2072: 54.
- McCauley, J.F., Breed, C.S., Helm, P.J., Billingsley, G.H., Mackinnon, D.J., Grolier, M.J. and McCauley, C.K. 1984. *Remote Monitoring of Processes that Shape Desert Surfaces - The Desert Winds Project*. United States Geological Survey, Bulletin 1634. 19 p.
- McCauley, J.F., Grolier, M., Breed, C.S., Mackinnon, D.J. and Billingsley, G.H. 1981. Field Modeling of the Response of Desert Surfaces to the Long-Short Term Effects of the Wind; Mars Application. *NASA Technical Memorandum*. TM-84211: 238-240.
- McCauley, J.F., Grolier, M.J., Breed, C.S., Mackinnon, D.J., Billingsley, G.H. and Helm, P.J. 1982. Monitoring desert winds by remote sensing: the United States Geological Survey Desert Winds Project. *First Thematic conference on remote sensing of arid and semi arid lands*. Cairo. *Environmental Research Institute, Ann Arbor, Michigan*. p 1229.
- McCoy, F.W., Nooldeberg, W.J. and Norris, R.M. 1967. Speculations on the Origin of the Algodones Dunes, South California. *Geological Society of America, Bulletin*. 78: 1039-1044.
- McCullagh, M., Hardy, N. and Lockman, W.O. 1972. Formation and Migration of Sand Dunes: A Simulation of their Effect in the Sedimentary Environment. In Merriam, D.F. (ed). *Mathematical Models of Sedimentary Processes*. London: Plenum. pp. 175-190.
- McDowell, P.F. 1984. Morphology and stratigraphic context of Holocene dunes, Lake County, Oregon. *Abstract Geological Society of America 97th Annual meeting*. p588.
- McGinnies, W.G. 1979. General Description of Desert Areas. In Goodall, W.G., Perry, R.A. and Howes, K.M.W. (eds). *Arid Land Ecosystems; Structure, Functioning and Management, Vol. 1*. International Biological Programme, Cambridge University Press, pp. 299-316.
- McGinnies, W.G. and Goldman, B.J. (eds). 1969. *Arid Lands in Perspective*. American Association for the Advancement of Science, Washington, D.C. and University of Arizona Press, Tucson. 421 p.
- McGinnies, W.G., Goldman, B.J. and Paylore, P. (eds). 1968. *Deserts of the World: An Appraisal of Research into their Physical and Biological Environments*. Tucson: University of Arizona Press. 788 p.
- McKay, D., Constantopoulos, J., Prestei, D.J. and El-Baz, F. 1980. Thickness of Coatings on Quartz Grains from the Great Sand Sea, Egypt. *Reports of Planetary Geology Program*. NASA TM-82385: 304-306.
- McKee, E.D. 1957. Primary Structure in Some Recent Sediments. *American Association of Petroleum Geologists, Bulletin*. 41(8): 1704-1747.
- McKee, E.D. 1966. Structures of Dunes at White Sands National Monument, New Mexico. *Sedimentology*. 7: 1-68.
- McKee, E.D. 1969. Primary Structures in Dune Sand and Their Significance (abs). *Symposium on Geology of Libya*. University of Libya, Faculty of Science, Tripoli. pp. 13-14.
- McKee, E.D. 1975. Study of Sand Seas on a Global Scale: Summary. In *Summaries, Tenth International Symposium on Remote Sensing of Environment*. Ann Arbor, Michigan, No. 109, p. 134.
- McKee, E.D. 1976. Continental Arid Climate Lithogenesis. *Sedimentary Geology*. Special Issue 22(1/2): v-vii.
- McKee, E.D. 1978. Interpreting Dune deposits Through Minor Structures (abs). In Greeley, R. and Black, D. (eds). *Abstracts for the Planetary Geology Field Conference on Aeolian Processes*. NASA Publication TM-78455: 35-36.
- McKee, E.D. (ed). 1979(a). *A Study of Global Sand Seas*. United States Geological Survey, Professional Paper 1052. 429 p.
- McKee, E.D. 1979(b). Introduction to a Study of Global Sand Seas. In McKee, E.D. (ed). *A Study of Global Sand Seas*. United States Geological Survey, Professional Paper 1052: 3-19.

- McKee, E.D. 1982(a). *Sedimentary Structures in Dunes of the Namib Desert, South West Africa*. Geological Society of America, Special Paper. 188, 64 p.
- McKee, E.D. 1982(b). Eolian Sand Bodies of the World. *First Thematic Conference on Remote Sensing of Arid and Semi-Arid Lands*. Cairo. pp. 75-82.
- McKee, E.D. 1983. Eolian Sand Bodies of the World. In Brookfield, M.E. and Ahlbrandt, T.S. (eds). *Eolian Sediments and Processes*. Developments in Sedimentology 38. Amsterdam: Elsevier. pp. 1-26.
- McKee, E.D. and Bigarella, J.J. 1979. Sedimentary Structures in Dunes. In McKee, E.D. (ed). *A Study of Global Sand Seas*. United States Geological Survey, Professional Paper 1052: 83-136.
- McKee, E.D. and Breed, C.S. 1974(a). An Investigation of Major Sand Seas in Desert Areas throughout the World. *Proceedings, Symposium on ERTS-1, Vol. 1, Sec. A*. NASA Goddard Space Flight Center. pp. 665-679.
- McKee, E.D. and Breed, C.S. 1974(b). Preliminary Report on Dunes. In *Skylab 4, Visual Observations Project Report*. NASA Technical Memorandum, TMS-58142: 9.1-9.9.
- McKee, E.D. and Breed, C.S. 1974(c). *A Study of the Morphology, Provenance and Movement of Desert Sand Seas in Africa, Asia and Australia*. NASA, ERTS Report E74-10187, 12 pp.
- McKee, E.D. and Breed, C.S. 1976. *Sand Seas of the World*. United States Geological Survey, Professional Paper 929: 81-88.
- McKee, E.D. and Douglass, J.R. 1971. Growth and Movement of Dunes at White Sands National Monument, New Mexico. *United States Geological Survey, Professional Paper*. 750-D: 108-114.
- McKee, E.D. and Moiola, R.J. 1975. Geometry and Growth of the White Sands Dune Field, New Mexico. *United States Geological Survey, Journal of Research*. 3: 59-66.
- McKee, E.D. and Tibbitts, G.C., Jr. 1964. Primary Structures of a Seif Dune and Associated Deposits in Libya. *Journal of Sedimentary Petrology*. 34: 5-17.
- McKee, E.D. and Ward, W.C. 1983. Eolian Environment. *American Association of Petroleum Geologists, Bulletin*.: 132-170.
- McKee, E.D., Breed, C.S. and Fryberger, S. 1977. Desert Sand Seas. In Carr, G.P. et al. *Skylab Explores the Earth*. NASA Special Publication, SP-380: 5-48.
- McKee, E.D., Breed, C.S., Fryberger, S.G., Gebel, D. and McCauley, E. 1975. *A Synthesis of Sand Seas Throughout the World; Photomosaics of Africa, Asia and Australia*. NASA Earth Resources Survey Program, Final Report.
- McKee, E.D., Breed, C.S. and Harris, L.F. 1973. A Study of the Morphology, Provenance and Movement of Desert Sand Seas in Africa, Asia and Australia. *NASA Goddard Space Flight Centre, Symposium on Significant Results Obtained from ERTS 1*. Vol 1(A): 291-303.
- McKee, E.D., Douglass, J.R. and Rittenhouse, S. 1971. Deformation of Lee-Side Laminae in Eolian Dunes. *Geological Society of America, Bulletin*. 82: 359-378.
- McKie, W. 1897. On the Laws that Govern the Rounding of Grains of Sand. *Edinburgh Geological Society, Transactions*. 7: 298-311.
- McKie, W. 1899. The Sands and Sandstones of Eastern Moray. *Edinburgh Geological Society, Transactions*. 9: 148-.
- McKenna-Neuman, C. and Gilbert, R. 1986. Aeolian Processes and landforms in glacialfluvial environments of southeastern Baffin Island, N.W.T., Canada. In: Nickling, W.G. (ed). *Aeolian Geomorphology. Proceedings of the 17th Annual Binghamton Geomorphology Symposium*. Allen and Unwin. pp. 213-236.
- McKenzie, D. 1982. The Northern Great Basin Region. In Bender, G.L. (ed). *Reference Handbook on the Deserts of North America*. Westport, Connecticut: Greenwood Press. pp. 321-382.
- McKenzie, L.A. 1952. *Report on the Kalahari Expedition, 1949*. Pretoria: South African Government Printer. 35 p.
- McTanish, G. 1984. The Nature and Origin of the Aeolian Mantles of Central Northern Nigeria. *Geoderma*. 33(1): 13-37.
- Maarleveld, G.C. 1960. Wind Directions and Cover Sands in The Netherlands. *Biuletyn Peryglacjalny*. 8: 49-58.
- Mabbutt, J.A. 1955. Erosion Surfaces in Namaqualand and the Ages of Surface Deposits in the South Western Kalahari. *Geological Society of South Africa, Transactions*. 63: 13-30.

- Mabbutt, J.A. 1961. A Stripped Land Surface in Western Australia. *Institut of British Geomorphology, Transactions*. 29: 101-114.
- Mabbutt, J.A. 1962. Geomorphology of the Alice Springs Area. In Perry, R.A. *et al*, General Report on Lands of the Alice Springs Area, Northern Territory, 1956-57. *CSIRO Land Research Series*. 6: 163-184.
- Mabbutt, J.A. 1963. Wanderrie Banks: Micro-Relief Patterns in Semi-Arid Australia. *Geological Society of America, Bulletin*. 74: 529-540.
- Mabbutt, J.A. 1967. Denudation Chronology in Central Australia; Structure, Climate and Landform Inheritance in the Alice Springs Area. In Jennings, J.N. and Mabbutt, J.A. (eds). *Landform Studies from Australia and New Guinea*. Canberra: Australian National University Press. pp. 144-181.
- Mabbutt, J.A. 1968. Aeolian Landforms in Central Australia. *Australian Geographical Studies*. 6: 139-150.
- Mabbutt, J.A. 1969. Landforms of Arid Australia. In Slaytar, R.O. and Perry, R.A. (eds). *Arid Lands of Australia*. Canberra: Australian National University Press. pp. 11-32.
- Mabbutt, J.A. 1971. The Australian Arid Zone as a Prehistoric Environment. In Mulvaney, D.J. and Golson, J. (eds). *Aboriginal Man and Environment in Australia*. Canberra: Australian National University Press. pp. 66-79.
- Mabbutt, J.A. 1977. *Desert Landforms*. Canberra: Australian National University Press. 340 p.
- Mabbutt, J.A. 1977. Desert Lands. In Jeans, D.N. (ed). *Australia: A Geography*. Sydney: Routledge and Kegan Paul. pp. 113-133.
- Mabbutt, J.A. 1980. Some General Characteristics of Aeolian Landscapes. In Storrer, R.R. and Stennard, M.E. (eds). *Aeolian Landscapes in the Semi-Arid Zone of South Eastern Australia*. Australian Society for Soil Science: Riverine Branch. pp. 1-15.
- Mabbutt, J.A. 1982. Ground Control of Dune Patterns in the Northwestern Simpson Desert, Central Australia. *Aeolian Process, Sediments and Landforms. SLEADS Workshop, Canberra*. pp. 20-22.
- Mabbutt, J.A. 1984. Landforms of the Australian Desert. In El-Baz, F. (ed). *Deserts and Arid Lands*. The Hague: Martinus Nijhoff Publishers. pp. 79-94.
- Mabbutt, J.A. *et al*. 1963. *General Report on the Lands of the Wiluna-Meekatharra Area, Western Australia, 1958*. CSIRO Land Research Series 7. 215 p.
- Mabbutt, J.A. and Sullivan, M.E. 1968. Formation of Longitudinal Dunes, Evidence from Simpson Desert. *Australian Geographer*. 10: 483-487.
- Mabbutt, J.A. and Wooding, R.A. 1966. Investigation of Dune Patterns in Central Australia using Aerial Photographs. *Proceedings of Workshop of CSIRO, Division of Computing Research, Canberra*.
- Mabbutt, J.A. and Wooding, R.A. 1983. Analysis of Longitudinal Dune Patterns in the Northwestern Simpson Desert, Central Australia. *Zeitschrift fur Geomorphologie, Supplement*. 45: 51-69.
- Mabbutt, J.A., Wooding, R.A. and Jennings, J.N. 1969. The Asymmetry of Australian Desert Sand Ridges. *Australian Journal of Science*. 32: 159-160.
- MacArthur, W.M. 1962. *Development and Distribution of Soils of the Swan Coastal Plain (Western Australia)*. CSIRO Soil Publication 16.
- MacCarthy, G.R. 1935. Eolian Sands, a Comparison. *American Journal of Science*. 30: 81-95.
- MacCarthy, G.R. and Huddle, J.W. 1938. Shape Sorting of Sand Grains by Wind Action. *American Journal of Science*. 35: 64-73.
- MacDonald, A.A. 1966. *The Dumont Dune System of the Northern Mojave Desert, California*. California State University, Northridge, MSc Thesis.
- MacDonald, A.A. 1970. The Northern Mojave Desert's Little Sahara. *M m Information Service*. 23: 3-6.
- MacDougal, D.T. 1912. The North American Deserts. *Geographical Journal*. 39: 105-123.
- MacFarlane, M.A. 1972. Wind Factor in Dune Formation at Great Whale, Quebec. In Adams, W.P. and Heileiner, M. (eds). *22nd International Geographical Congress, Montreal, University of Toronto Press*.
- Machenberg, M.D. 1982. Sand Dune Migration in Monahans Sandhills State Park, Texas (abs). *Geological Society of America, Abstracts Program*. (16th Annual Meeting, South-Central Section). 14(3): 116.

- MacMahon, J.A.** 1979. North America. In Goodall, D.W., Perry, R.A. and Howes, K.M.W. (eds). *Arid Land Ecosystems; Structure, Functioning and Management, Vol. 1*. International Biological Programme, Cambridge University Press. pp. 21-82.
- Macumber, P.G.** 1970. Lunette Initiation in the Derang District. *Mining and Geological Journal of Victoria*. 6: 16-18.
- Madigan, C.T.** 1930. An Aerial Reconnaissance into the Southeastern Portion of Central Australia. *Royal Geographical Society of Australasia, South Australia Branch, Proceedings*. 30: 83-108.
- Madigan, C.T.** 1936. The Australian Sand-Ridge Deserts. *Geographical Review*. 26(2): 205-227.
- Madigan, C.T.** 1938. The Simpson Desert and its Borders. *Royal Society of New South Wales, Proceedings*. 71: 503-535.
- Madigan, C.T.** 1945. Simpson Desert Expedition, Scientific Reports: Introduction, Narrative, Physiography and Meteorology. *Royal Society of South Australia, Transactions*. 69(1): 118-139.
- Madigan, C.T.** 1946. The Sand Formations. Simpson Desert Expedition, 1939. Scientific Report 6: Geology. *Royal Society of Australia, Transactions*. 70(1): 45-63.
- Madjanowski, S.** 1958. Les Problemes Climatiques des Perodes des Dunes (in Polish). In Galon, R. (ed). *Wydmy Srodladowe Polski*. PWN, Warszawa.
- Madole, R.F.** 1981. Great Plains Eolian Processes (abs). *United States Geological Survey, Professional Paper* 1275: 178.
- Maegley, W.J.** 1976. Saltation and Martian Sandstorms. *Reviews of Geophysics and Space Physics*. 14: 135-142.
- Magalhaes, J. and Gierasch, P.** 1982. A Model of Martian Slope Winds; Implications for Eolian Transport. *Journal of Geophysical Research*. 87: 9975-9984.
- Mahmoudi, F.** 1977. Les Nebkas de Lut, Iran. *Annals de Geographie*. 475: 315-321.
- Mainguet, M.** 1968. Le Borkou, Aspects d'un Modele Eolien. *Annals de Geographie*. 77: 296-322.
- Mainguet, M.** 1969. Sequences Morphogenetiques Quaternaires au Borkou, Nord Tchad. *Photo Interpretation*. 3: 17-44.
- Mainguet, M.** 1972(a). Etude d'un Erg (Fachi Bilma, Sahara Central). Son Alimentation Sableuse et sa Insertion dans le Paysage d'apres les Photographies Prises par Satellites. *Comptes Rendus des Seances de l'Academie des Sciences*. 274: 1633-1636.
- Mainguet, M.** 1972(b). Cassures Periodiques et Modele Eolien dans les Gres Peri-Tibestiens, Tchad (abs). *International Geographical Congress Paper*. 22(1): 40-41.
- Mainguet, M.** 1975. Etude Comparee des Ergs a l'Echelle Continental, Sahara et Deserts D'Australie. *Bulletin d'Association Geographiques Francais*. 424(25): 135-140.
- Mainguet, M.** 1976(a). Bilan des Recherches du Laboratoire de Geographie Physique Zonale et d'Etude des Paysages en Roches Sedimentaires Appliquees a la Dynamique Eolienne en Zone Aride Chaude. *Paleoecology of Africa*. 9: 41-44.
- Mainguet, M.** 1976(b). Images Satellites et Morphologie des Zones Arides et Saheliennes. In *Apports de la Teledetection a l'Etude des Region Arides et Subarides; Journee d'Etude Organisee le 9 Avril au CNEAT*. pp. 34-50.
- Mainguet, M.** 1976(c). La Circulation de Sable au Sahara, Diagnostic d'apres les Images de Satellites, Consequences sur la Desertification. In Gerasimov, I.P. (ed). *Geomorphology and Paleogeography*. International Geographical Congress. 23(1): 182-187.
- Mainguet, M.** 1976(d). Proposition pour une Nouvelle Classification des Edifices Sableux Eoliens d'apres les Images des Satellites Landsat 1, Gemini, NOAA 3. *Zeitschrift fur Geomorphologie*. 20(3): 275-296.
- Mainguet, M.** 1977. Analyse Quantitative de l'Extremite Sahelienne du Courant Eolian Transporter de Sable au Sahara Nigerian. *Comptes Rendus des Seances de l'Academie des Sciences, Serie D*. 285: 1029-1032.
- Mainguet, M.** 1978. The Influence of Trade Winds, Local Air Masses and Topographic Obstacles on the Aeolian Movement of Sand Particles and the Origin and Distribution of Ergs in the Sahara and Australia. *Geoforum*. 9: 17-28.
- Mainguet, M.** 1979. Encore a Propos des Barkhanes: Leur Tourbillons sous le Vent, leur Role de Freinage de Sable et leurs Assemblages. *Stuttgarter Geographische Studien*. 93: 79-93.
- Mainguet, M.** 1980. L'Interdependance des Mecanismes Eoliens dans les Zones Arides du Sahara et Dans leur Marges Saheliennes: Ses Effets sur la Propagation de la Desertification. *Stuttgarter Geographische Studien*. 95: 107-123.

- Mainguet, M. 1982(a). L'Epaisseur des Depots Sableux Eoliens, Est-Elle un Indicateur d'Aridite. L'Aridite Sahareinne. *Bulletin d'Association Geographiques Francais*. 483-484: 64-67.
- Mainguet, M. 1982(b). Les Dunes d'Erosion: Signification Morphodynamique et Climatique de leur Existence. *Wurben Geographische Arhhandungen*. 56: 79-92.
- Mainguet, M. 1982(c) Dune forms on space images: a morphometric approach to the study of of desert sand seas. *First Thematic conference on remote sensing of arid and semi arid lands*. *Environmental Research Institute, Ann Arbor, Michigan*. 551-552.
- Mainguet, M. 1982(d) Use of satellite images for detecting wind dynamics, sand deposits, fixed dunes, wind erosion and desertification in the Sahel, south of Sahara. *First thematic conference of remote sensing of arid and semi arid lands*. *Environmental Research Institute, Ann Arbor, Michigan*. 551-552.
- Mainguet, M. 1983(a). Dunes Vives, Dune Fixees, Dune Veteus: Une Classification selon le Bilan d'Alimentation, le Regime Eolian et la Dynamique des Edifices Sableux. *Zeitschrift fur Geomorphologie, Supplement*. 45: 265-285.
- Mainguet, M. 1983(b). Tentative Megageomorphological Study of the Sahara. In Gardner, R. and Scoging, H. (eds). *Megageomorphology*. Oxford: Clarendon Press. 113-133.
- Mainguet, M. 1984(a). Space Observations of Saharan Aeolian Dynamics. In El-Baz, F. (ed). *Deserts and Arid Lands*. The Hague: Martinus Nijhoff Publishers. pp. 59-77.
- Mainguet, M. 1984(b). A Classification of Dunes Based on Aeolian Dynamics and the Sand Budget. In El-Baz (ed). *Deserts and Arid Lands*. The Hague: Martinus Nijhoff Publishers. pp 31-58.
- Mainguet, M. 1985. Le Sahel, un laboratoire naturel pour l'etude du vent, mecanisme pincipal de la desertification. In *Proceedings of International Workshop on the Physics of Blown Sand*. *Department of Theoretical Statistics. University of Aarhus*. 545-562.
- Mainguet, M. 1986. The wind and desertification processes in the Saharo-Sahelian regions. In: El-Baz, F. and Hassan, M.H.A. (eds). *Physics of Desertification*. Martinus Nijhoff. pp. 210-240.
- Mainguet, M. and Callot, Y. 1974. Airphoto Study of Typology and Interrelations between the Texture and Structure of Dune Patterns in the Fachi-Bilma Erg, Sahara. *Zeitschrift fur Geomorphologie, Supplement*. 20: 62-68.
- Mainguet, M. and Callot, Y. 1978. *L'Erg de Fachi-Bilma, Tchad - Niger*. Memoires et Document, Centre National de Recherches Scientifiques 18. 184 p.
- Mainguet, M. and Canon, L. 1976. Vents et Paleovents du Sahara, Tentative d'Approche Paleoclimatique. *Revue de Geographie Physique et de Geologie Dynamique*. 18: 241-250.
- Mainguet, M. and Chemin, M.C. 1980. Etude des Variations dues a une Crise Climatique. *Precipitations et Vents dans le Sahel de la Republique du Niger, Lutte Contre les Effects de Aridite, Localization d'une Unite Ecologique Experimentale dans la Region de Maradi*. Laboratoire de Geographie Physique Zonale Reims, Rapport No. 4, 99 p.
- Mainguet, M. and Chemin, M.C. 1981. The Use of Landsat Imagery for the Cartography of the Eolian Dynamics in the Desertification of Sahelian Areas. *4eme Colloque International du GDJA*. pp. 135-149.
- Mainguet, M. and Chemin, M.C. 1983. Sand Seas of the Sahara and Sahel; an Explanation of their Thickness and Sand Dune Type by the Sand Budget Principle. In Brookfield, M.E. and Ahlbrandt, T.S. (eds). *Eolian Sediments and Processes*. Developments in Sedimentology 38. Amsterdam: Elsevier. pp. 353-363.
- Mainguet, M. and Cossus, L. 1980. Sand Circulation in the Sahara: Geomorphological Relations Between the Sahara Desert and its Margins. In Sarnthein, M., Seibold, E. and Rognon, P. (eds). *Sahara and Surrounding Seas; Sediments and Climatic Change*. Paleocology of Africa and the Surrounding Islands. 12: 69-78.
- Mainguet, M. and Vimeux-Richeux, M. 1981. Autochtonie et Allochtonie des Sables Eoliens. Etude des Mineraux Lourds de la Couverture Sableuse du Niger. *Comptes Rendus des Seances de l'Academie des Sciences D*. 292: 1437-1440.

- Mainguet, M., Borde, J.M. and Cossus, L. 1981. Comparative Studies of the Northern Polar Sand Seas of Mars with Terrestrial Dunes; Evaluation of Our Knowledge. *Papers Presented to the Third International Colloquium on Mars*. 441: 142-144.
- Mainguet, M., Callot, Y. and Guy, M. 1974. Les Dunes dans l'Erg de Fachi-Bilma, Classement Taxonomique. Diagnostic du Sens et de la Direction du Vent. *Photo Interpretation*. 1974-1, 1 a 5: 1-37; 1974-2, 1 a 7: 1-51.
- Mainguet, M., Canon, L. and Chemin, M.C. 1980. Le Sahara; Geomorphologie et Paleomorphologie Eoliennes. In Williams, M.A.J. and Faure, H. (eds). *The Sahara and the Nile*. Rotterdam: A.A. Balkema. pp. 17-35.
- Mainguet, M., Cossus, L. and Chapelle, A.M. 1980. Utilisation des Images Meteosat pour Preciser les Trajectoires Eoliennes au Sol, au Sahara et sur les Marges Saheliennes. *Interpretation des Documents Meteosat du 28 Mai, 1978 au 9 Fevrier, 1979. Societe Francaise Photogrammetrie et de Teledetection B*. 78(2): 1-12.
- Mainguet, M., Vimeux-Richeux, M. and Chemin, M.C. 1983. Autochtonie et Allochtonie des Sables de la Zone Saharo-Sahelienne du Niger. *Revue Geologique Dynamique et de Geographie Physique*. 24(2): 167-175.
- Malakowski, S. 1917. Les Dunes Anciennes des Environs de Varsovie. *Societe des Sciences et de Lettres de Varsovie, Travaux*. 3(23).
- Malakowski, S. and Lencewicz, S. 1953. The Inland Dunes of Poland (in Polish). *Geological Editions*.
- Malin, M.C. and Eppler, D.B. 1981. Eolian Processes in Iceland's Cold Desert (abs). *Reports of Planetary Geology Program*. NASA TM-84211: 247-248.
- Mallick, D.I.J., Habgood, F. and Skinner, A.C. 1981. *A Geological Interpretation of Landsat Imagery and Air Photography of Botswana*. Overseas Geology and Mineral Resources 56. 35 p.
- Maloney, J.F. 1982. Sand Mountain; the Dune that Booms. *Nevada*. 42(3): 8-11.
- Manent, L.S. and El-Baz, F. 1980. Effects of Topography on Dune Orientation in the Farafr Region, Western Desert of Egypt; Implications to Mars. In *Reports of Planetary Geology Program*. NASA TM-82385: 298-300.
- Manikowska, B. 1977. The Development of Soil Cover in the Late Pleistocene and the Holocene in the Light of Fossil Soils from Dunes in Central Poland. *Quaestiones Geographicae*. 4: 109-130.
- Mann, H.S., Lahiri, A.N. and Pareek, O.P. 1976. A Study on the Moisture Availability and Other Conditions of Unstabilised Dunes in the Context of Present Land Use and the Future Prospects of Diversification. *Annals of Arid Zone*. 15: 270-284.
- Margolis, S.V. and Krinsley, D.H. 1971. Submicroscopic Frosting on Aeolian and Subaqueous Quartz and Sand Grains. *Geological Society of America, Bulletin*. 82: 3395-3406.
- Marie, A. 1983. Etude comparative des images SIR-A et Landsat sur la termination ouest du Grand Erg Occidental. In *L'experience SIR-A de la navette spatiale americaines. Results obtenus par les investigateurs francais. Bulletin Societe Francaise de Photogrammetrie et de Teledetection*. 13-21.
- Marimier, F., Nesson, C. and Trecolle, G. 1972. Etude Sedimentologique de Gisement Prehistorique de Hassi - Mouillah, Sahara Algerien Nord-Oriental. *Revue de Geomorphologie Dynamique*. 21(1): 1-18.
- Marker, M.E. 1978. Aspects of Desert Geomorphology. *South African Geographer*. 6(1): 73-84.
- Marker, M.E. 1979. The Geomorphological Significance of Some Central Namib Materials. *Journal of South West Africa Scientific Society*. 34-35: 49-55.
- Maroney, D. and Swinehart, J.B. 1978. Middle Holocene Large Scale Dune Formation in the Nebraska Sand Hills (abs). *Geologic Society of America, Abstracts Program*. 10(7): 450.
- Marrs, R.W. and Kolm, K.E. (eds). 1982. *Interpretation of Windflow Characteristics from Eolian Landforms*. Geological Society of America, Special Paper 192.
- Marshall, J.R., Bougan, S. and Greeley, R. 1984. Venus: simulation of aeolian bedforms and comparisons with terrestrial aeolian and subaqueous forms. *Eos*. 65 (45): 982.
- Marsland, P.S. and Woodruff, J.G. 1937. A Study of the Effects of Wind Transportation on Grains of Several Minerals. *Journal of Sedimentary Petrology*. 7: 18-30.

- Marston, R.A. and Schmidt, R.H. Jr. 1981. Geomorphic Parameters of Los Medanos de Samalayuca, Chihuahua, Mexico. In Hoffer, J.M. et al (eds). *Geology of the Border; Southern New Mexico - Northern Chihuahua*. El Paso Geological Survey, Texas. pp. 22-25.
- Martin, D.L. and Nairn, A.E.M. 1975. The Wind Directions of the Pleistocene Dunes near Essaouira, Morocco. *Palaeogeography, Palaeoclimatology, Palaeoecology*. 17(2): 173-176.
- Martin, H. 1950. Sudwestafrika. *Geologische Rundschau*. 38: 6-14.
- Martin, L., Boas, G.V., Bittencourt, A. and Flexor, J.M. 1979/1980. Origine des Sable et Ages des Dunes de la Region de Salvador, Bresil. *Cahiers ORSTOM, Serie Geologie*. 11(1): 125-132.
- Maruszczak, H. 1958. The Dunes of the Lublin Plateau and Environs (in Polish). In Galon, R. (ed). *Wydmy Srodladowe Polski II*. PWN, Warszawa.
- Maruszczak, H. and Trembaczowski, J. 1960. Proba Porownania Wydm Srodladowych Okolic Widina, Bulgaria, i Wyzyny Lubleskiej, Polska. (Attempt of Comparing Continental Dunes of the Widen Region, Bulgaria, with Dunes of the Lublin Plateau, Poland). *Czasopismo Geograficzne*. 31(2).
- Mason, C.C. 1973. Topographic Control of Mid-Latitude Martian Aeolian Deposits (abs). *EOS, Transactions of the American Geophysical Union*. 54(4): 348.
- Mason, C.C. and Folk, R.L. 1958. Differentiation of Beach, Dune and Eolian Flat Environments by Size Analysis, Mustang Island, Texas. *Journal of Sedimentary Petrology*. 28: 211-226.
- Mather, K.D. and Miller, G.S. 1966. Wind Drainage of the High Plateau of Antarctica. *Nature*. 209: 281-284.
- Matschinski, M. 1952. Sur les Formations Sableuses des Environs de Beni-Abbes. *Societe Geologique de France, Compte Rendu*. 9-10: 171-174.
- Matchinski, M. 1953. La Formation des Dunes dans les Deserts. *Nature*. 234: 1169-1175.
- Matschinski, M. 1954. Stabilita dele Dune del Sahara. *Servizio Geologico d'Italia, Rome, Bollettino*. 55: 579-592.
- Mattev, G.B. 1982. Holocene sediments of southern Asurashtra coast (Gujarat) and their textural characteristics. In Merh, S.S. (ed) *First National Seminar on Quaternary Environments*. Hindusta Press, New Delhi. 265-284.
- Mattox, R.B. 1955. Aeolian Shape Sorting. *Journal of Sedimentary Petrology*. 25: 111-114.
- Matsuda, A., Kamichika, M. and Nishimura, S. 1980. Some Aspects of Wind Force and Sand Movement in the Tottori Sand Dune (in Japanese). *Sand Dune Research*. 27(2): 49-56.
- Maxwell, T.A. 1982. Particle size and spacing variations in desert surface sediments: importance for remote sensing of arid regions. In *First thematic conference on remote sensing of arid and semi arid environments*. Environmental Research Institute, Ann Arbor, Michigan. 1239-1248.
- May, L. 1973. Geological Reconnaissance of the Gran Desierto Region, Northwestern Sonora, Mexico. *Journal of the Arizona Academy of Science*. 8: 158-169.
- Mazullo, J., Cunningham, D. and Sims, D. 1984. Grain shape variation in coastal eolian environments of south Texas: effects of abrasion and sorting. In *SEPM 1st annual mid year meeting*, San Jose. p 52.
- Mazullo, J., Sims, D. and Cunningham, D. 1986. The effects of aeolian sorting and abrasion on the shape of fine quartz sand grains. *Journal of Sedimentary Petrology*. 56: 45-56.
- Meckelein, W. 1960. *Forschungen in der Zentralen Sahara: Fezzan*. Braunschweig: G. Westermann.
- Medellin-Leaf, F. 1982. The Chihuahuan Desert. In Bender, G.L. (ed). *Reference Handbook on Deserts of North America*. Westport, Connecticut: Greenwood Press. pp. 321-382.
- Mehringo, P.J. and Wingand, P.E. 1986. Holocene history of Skull Creek dunes, Catlow Valley, southeastern Oregon, USA. *Journal of Arid Environments*. 10: 117-138.
- Meigs, P. 1953. World Distribution of Arid and Semiarid Homoclimates. In *Reviews of Research on Arid Zone Hydrology, UNESCO, Paris*. pp. 203-209.
- Meigs, P. 1966. *Geography of Coastal Deserts*. UNESCO Arid Zone Research 28. 140 p.

- Melamed, Ya.R.** 1969. Iskopayemye Dyuny Yugo-Zaspadnogo Tadzhiikistana. (Fossil Dunes of Southwestern Tadzhiikistan). *Problemy Neftegazonosnosti Tadzhiikistana*. 1: 44-47.
- Melton, F.A.** 1940. A Tentative Classification of Sand Dunes. *Journal of Geology*. 48: 113-174.
- Mensching, H.** 1976. Fluviale und Aolische Formungsprozesse Arider Morphotynamik an Stufenrandern des Sahrischen Hamada-Reliefs. *Zeitschrift fur Geomorphologie, Supplement*. 24: 120-127.
- Mensching, H.** 1979. Beobachtungen und Bemerkungen zum Alten Dunengurtel des Sahelzone Sudlich der Sahara als Palaoklimatischer Anzeiger. *Stuttgarter Geographische Studien*. 93: 67-78.
- Mensching, H.** 1982. *Physiche Geographie der Trockengebiete*. Wissenschaftliche Buchgesellschaft, Darmstadt Wege der Forschung, 536. 380 p.
- Mercer, A.G. and Haque, M.I.** 1973. Ripple profiles modelled mathematically. *Journal of the Hydraulics Division. Proceedings of the American Society of Civil Engineers*. 99: 441-459.
- Merk, G.P.** 1960. Great Sand Dunes of Colorado. In Weimer, R.J. and Haun, J.D. (eds). *Guide to the Geology of Colorado. Geological Society of America, New York*. pp. 127-129.
- Merk, G.P.** 1973. The Reversing Transverse Dunes in the San Luis Valley of Colorado (abs). *Geologic Society of America, Abstracts Program*. 5: 737.
- Merriam, R.** 1969. Source of Sand Dunes of Southeastern California and Northwestern Sonora, Mexico. *Geological Society of America, Bulletin*. 80: 531-534.
- Mettler, D.E.** 1955. *Dune Sands of the Syracuse Area in Kansas*. University of Kansas, MSc Thesis.
- Michel, P.** 1959. L'Evolution Geomorphologique des Bassins du Senegal et du Haute Gambie et son Connection avec la Prospection Mineral. *Revue de Geomorphologie Dynamique*. 10: 117-143.
- Michel, P.** 1978. Les Modeles et Depots du Sahara Meridional et Sahel et du Sud-Ouest Africa; Essai de Comparaison. *Recherches Geographiques a Strasbourg, Geographie Tropicale*. 5: 5-39.
- Michel, P.** 1979(a). The Southwest Sahara Margin. Sediments and Climate Changes during the Recent Quaternary. *Paleoecology of Africa*. 12: 297-306.
- Michel, P.** 1979(b). Breve Comparaison entre le Mauritanie et la Namibie. *Association Senegalaise pour l'Etude du Quaternaire Africain, Bulletin de Liason*. 54-55: 67-74.
- Middleton, G.V. and Southard, J.B.** 1978. Mechanics of Sediment Movement. *Society of Economic Paleontologists and Mineralogists, Short Course 3*. Dallas, Texas.
- Miles, R.J. and Franzmeier, D.P.** 1981. A Lithochronosequence of Soils formed in Dune Sands. *Soil Science Society of America, Proceedings*. 45(1-6): 362-367.
- Minarikova, D.** 1973. Petrografie Kvarternick Sedimentu Zahorska Niziny. (Petrography of Quaternary Sediments of the Zahorska Nizina Lowland). *Sbornik Geologickych Ved Antropozoikum*. A: 77-129.
- Miotke, F.D.** 1981. Geomorphic Processes in Victoria Valley. *Antarctic Journal of the United States*. 16(5): 50-52.
- Mirkin, G.R., Vilenskaya, B.G. and Smirnov, L.S.** 1974. Optichesky Analiz Morfologii Eolovogo Rel'yefa po Aerofotosnumkam (v Svyazi s Effecttom Sily Koriolisa). (Optical Analysis of Aerial Photographs of Eolian Relief in Relation to the Effect of the Coriolis Force). *Akademiya Nauk SSR. Doklady, Moscow-Leningrad*. 21991: 167-170.
- Misak, R.F. and El-Shazly, M.** 1982. Studies on the Blown Sands at Some Localities in Sinai and the North-Western Desert, Egypt. *Egyptian Journal of Geology, Special Issue*. 1: 25-46.
- Misra, N. and Misra, K.S.** 1982. Morphology of aeolian deposits in western India and their bearing on wind direction during Quaternary era. In Merh, S.S. (ed) *First National Seminar on Quaternary Environments*. Hindstra Press, New Delhi. 357-360.
- Misra, R.C. and Verma, V.K.** 1957. Dune Sands in the Vicinity of Palana (Bikaner, Rajasthan). *Journal of Science and Industrial Research*. 16B: 263-267.
- Miszalski, J.** 1974. Dynamika Procesow Eolicznych w Swietle Pomiarow Fotogrametrycznych i Interpretacji Zdjec Lotniczych. (The Dynamics of Aeolian Processes in the Light of Photogrammetric Measurements and of Photo-Interpretation). *Przegląd Geolezyjny*. 46(10): 436-440.
- Mityk, J.** 1982. Pojedyncze Barchany Polnocnego Beludzystanu. (Simple Barchans of Northern Baluchistan). *Czasopismo Geograficzne*. 53(3-4): 273-287.

- Mitwally, M. 1953. Physiographic Features of the Libyan Desert. *Institut Desert Egypte, Bulletin*. 3(1): 147-163.
- Mizutani, S. and Suwa, K. 1966. Orthoquartzitic sand from the Libyan desert, Egypt. *Journal of Earth Sciences (Nagoya)* 14 (2): 137-149.
- Modrejewski, P. and Szczypek, T. 1980. Geneza piaskow eoliczych w dolinie Podsiemonskiej Strugi (wyzyna Slaska). (Origin of eolian sands in the Podsiemonska Struga Valley, Silesian Plateau). *Geographic Studia et Dissertationes*. 3: 86-97.
- Moiola, R.J. and Spencer, A.B. 1979. Differentiation of Eolian Deposits by Discriminant Analysis. In McKee, E.D. (ed). *A Study of Global Sand Seas*. United States Geological Survey, Professional Paper 1052: 53-58.
- Moiola, R.J. and Weiser, D. 1968. Textural Parameters: An Evaluation. *Journal of Sedimentary Petrology*. 38(1): 45-53.
- Moiola, R.J., Spencer, A.B. and Weiser, D. 1974. Differentiation of Modern Sand Bodies by Linear Discriminant Analysis. *Transactions of the Gulf Coast Association of Geological Societies*. 24(353): 321-326.
- Molner, B. 1961. Die Verbreitung der Holischen Gildungen an der Oberflache und Untertags im Swischenstromland von Danan und Theiss. *Foldtani Kozlony*. 91(3): 300-315.
- Monod, T. 1928. Une Traversee de la Mauritanie Occidentale. *Revue de Geographie Physique et de Geologie Dynamique*. 1: 3-25, 88-106.
- Monod, T. 1936. Presentation d'un Croquis Geologique Schematic du Sahara Occidental. *Societe Geologique de France, Compte Rendu*. 10: 164.
- Monod, T. 1950(a). Sur les Conditions Desertique Anciennes au Sahara. *Institut Francais d'Afrique Noire, Bulletin*. 12(2): 530-531.
- Monod, T. 1950(b). Autour du Probleme du Dessechement Africain. *Institut Francais d'Afrique Noire, Bulletin*. 12(2): 514-523.
- Monod, T. 1958. Majabat-al-Kourba, Contribution a l'Etude de l'Empty Quarter, Ouest Saharien. *Institut Francais d'Afrique Noire, Memoire*, 52.
- Monod, T. 1961. Majabat-al-Koubra (Supplement). *Institut Francais d'Afrique Noire, Bulletin*. 23: 591-637.
- Monod, T. 1962. Notes sur le Quaternaire de la Region Tazzmout-El Bayyel (Adrar de Mauritanie). *Congres Pan-Africain du Prehistoire et de l'Etude de Quaternaire, 4th, Leopoldville, Actes*. pp. 172-188.
- Monod, T. and Cailleux, A. 1945. Etude de Quelques Sables et Gres du Sahara Occidental. *Institut Francais d'Afrique Noire, Bulletin*. 7: 174-190.
- Monod, T. and Toupet, C. 1973. Die Westliche Sahara. In Schiffer, H. (ed). *Die Sahara und ihre Randgebiete; Darstellung eines Natur-Grossraumes III; Band Regionalgeographie*. IFO Institut fuer Wirtschaft Muenchen Afrikan Studien. 62: 26-166.
- Monterin, U. 1935. Sulla Trasformazione delle Dune Trasversali in Longitudinali nel Sahara Libico. *Reale Accademia delle Scienze di Torino, Classe di Scienze Fisiche, Matematiche, e Naturali, Atti*. 70: 62-80.
- Morrison, A. and Chown, M.C. 1964. *Photography of the Western Sahara from the Mercury MA-4 Spacecraft*. NASA Contract No. NA Sr-140. McGill University. 125 p.
- Morrison, R.B. 1985. Pliocene/Quaternary geology, geomorphology and tectonics of Arizona. In Weide, D.L. (ed) *Soils and Quaternary Geomorphology of the south western United States. Geological Society of America Special Paper*. 203: 124-146.
- Moseley, F. 1965. Plateau Calcrete, Calcreted Gravels, Cemented Dunes and Related Deposits of the Ma'alleghe-Bomba Region of Libya. *Zeitschrift fur Geomorphologie*. 9(2): 167-185.
- Moss, A.J. 1962. The Physical Nature of Common Sandy and Pebbly Deposits. *American Journal of Science*. 260: 337-373.
- Mott, R.J. 1959. Notes on the Sand Dunes near Prescott, Ontario. *Revue Canadienne de Geographie*. 13: 135-147.
- Mouline, M. 1970. Sur l'Age des Eolisations de la Depression de Revel, Haute Garonne. *Comptes Rendus des Seances de l'Academie des Sciences, Serie D. Sciences Naturelles*. 271(25): 2243-2246.
- Mozhaev, B.N., Mozhaeva, V.G. and Kirsonov, A.A. 1984. Expression of Recent local structures in the sands of southwestern Turkmenistan. *Problems of Desert Development* 1984 (3): 38-43.
- Mrozek, W. 1958. The Dunes of Tonin-Bydgoszcz Valley (in Polish). In Galon, R. (ed). *Wydmy Śródładowe Polski II*. PWN, Warszawa.

- Muhls, D.R. 19 . Age and palaeoclimatic significance of Holocene sand dunes in northeastern Colorado. *Annals Association of American Geographers*. 75: 566-582.
- Muhs, D.R. and Madole, R.F. 1980. Soil - Geomorphic Evidence for Widespread Movement of Dune Sands on the Central Great Plains during the Altithermal (abs). *38th Plains Conference, Program and Abstracts*: 33.
- Mukerji, A.B. 1961. Morphogenetic Nature of the Bhur. *Indian Geographical Journal*. 36(2): 53.
- Mulcahy, M.J. 1973. Landforms and Soils of Southwestern Australia. *Journal of the Royal Society of Western Australia*. 56: 16-22.
- Muller, J. and Ostaficzuk, S. 1971. Application of Photogrammetric Methods to Investigation of Wind Ripple Dynamics. *Polskie Towarzystwo Geologiczne, Rocznik*. 40(3-4): 431-437.
- Murbarger, N. 1950. The Great White Sands. *Natural History*. 59 (5): 228-235.
- Murphy, J.D. 1973. Bruneau Dune and the geology of Eagle Cove, Idaho. *M.Sc. thesis, State University of New York at Buffalo*. 77 p.
- Murphy, J.D. 1975. The Geology of Bruneau Dunes State National Park, Idaho (abs). *Geologic Society of America, Abstracts Program*. 7: 633.
- Murphy, J.D. and Greeley, R. 1972. Sand Dunes at Eagle Cove, (Bruneau), Idaho; Possible Analogs to Martian Eolian Features (abs). *EOS, Transactions of the American Geophysical Union*. 53(11): 1037.
- Murray, G.W. 1946. Possible Changes in Arabian Wind Direction. *Geographical Journal*. 108: 127-128.
- Murzayev, E.M. 1967. Nature of Sinkiang and formation of the deserts of central Asia. *Joint Publications Research Service, JPRS* 40, 299, TT 67-30944: 617 p.
- Musset, M. 1923. Über Sandwanderung, dunenbildung und Veränderung an der Unterpommerischen Kuste. *Zeitschrift für Bauwesen, Berlin*, vol 73.
- Mycielska-Dowgiallo, E. 1965. Mutual Relation between Loess and Dune Accumulation in Southern Poland. *Geographica Polonica*. 6: 105-115.
- Mycielska-Dowgiallo, E. 1980. Cechy Strukturalne i Teksturalne Osadow Budujacych Formy Eoliczne w Rejonie Palmyry. (Structural and Textural Features in Deposits of Aeolian Forms in Palmyra Region). In Kurlinski, A. et al (eds). *Prace i Studia Geograficzne Tom. 2*, Warsaw University Press. pp. 189-214.
- Mycielska-Dowgiallo, E. and Kzywoblocka-Lavrow, R. 1975. Piaski Rzeczne i Wydmowe Miedzyrzecza Wisly i Legu, Kotlina Sandomierska, w Swietle Analizy Urzezbienia Powierzchni Ziarn Kwarcowych w Mikroskopie Elektronowym. (Fluvial and Dune Sands from the Vistula and Lef Interfluve, the Sandomierz Basin, in the Light of an Analysis of Surface Textures of Quartz Sand Grains Observed in Electron Microscope). *Przegląd Geograficzny*. 47(3): 567-576.
- Nagtegaal, P.J.C. 1973. Adhesion Ripples and Barchan-Dune Sands of the Recent Namib (South West Africa) and Permian Rotliegend (Northwest Europe) Deserts. *Madoqua, Series II*. 2(63-68): 5-19.
- Nagy, J. 1974. Alkalmazott Tajokologiai Szintezis Egy Duna - Tisza Kozi Homoktervelet Peldajan. (Applied Landscape - Ecological Synthesis Illustrated by the Example of the Sandy Area in the Danube - Tisza Interfluve). *Földrajzi Ertesto*. 23(3): 323-332.
- Nahon, D. and Demoulin, D. 1970. Essai de Stratigraphie Relative des Formations Cuirassees du Senegal Occidental. *Comptes Rendus des Seances de l'Academie des Sciences, Serie D. Sciences Naturelles*. 270: 2764-2767.
- Nahon, D., Beaudet, G., Michel, P., Olivia, P., Riser, J. and Ruellan, A. 1976. Formes, Formations Superficielles et Variations Climatiques Recentes du Sahara Occidental. *Revue de Geographie Physique et de Geologie Dynamique*. 18(2-3): 157-174.
- Nalpanis, P. 1985. Saltating and suspended particles over flat and sloping surfaces. II : Experiments and numerical simulations. In *Proceedings International Workshop on the Physics of Blown Sand. Department of Theoretical Statistics. University of Aarhus*. 37-66.

- Naruse, T. 1975. Some Morpho - Ecological Problems of the Thar Desert in India; a Geographical Analysis (in Japanese). In Ishida, H. (ed). *Dynamic Regional Geographical Studies of the Punjab, India*. University of Hiroshima, Centre for Research in World Regional Geography. pp. 270-291.
- Naruse, T. 1977. A Geomorphological Study of the Punjab Plains and the Northern Part of the Thar Desert in India (in Japanese). In Ishida, H. (ed). *'Green Revolution' in the Punjab; Techniques, Background and Effects*. University of Hiroshima, Centre for Research in World Regional Geography. pp. 47-66.
- Nevyazhskii, I. 1970. Tukulans, Deserts of Yakutiya. *Army Foreign Science and Technology Centre, Charlottesville, Virginia. Report No. FSTC-HT-23-1198-71. Translation of "Tukulany, Pustyn Yakutti, Nauka i Zhizn, USSR"* 36(3): 58-59. 9 p.
- Nevyazhskii, I. and Biozhev, R.A. 1960. Aeolian Relief Forms in Central Yakutia (in Russian). *Akademiia Nauk SSR, Izvestiya, Seriya Geograficheskaya*. 3: 90-.
- Newell, N.D. and Boyd, D.W. 1955. Extraordinarily Coarse Eolian Sand of the Ica Desert, Peru. *Journal of Sedimentary Petrology*. 25(3): 226-228.
- Nicholson, S.E. and Flohn, H. 1980. African Environmental and Climatic Changes and the General Atmospheric Circulation in Late Pleistocene and Holocene. *Climatic Change*. 2(4): 313-348.
- Nickling, W.G. 1976. *Eolian Sediment Transport, Slims River Valley, Yukon Territory*. University of Ottawa, PhD Thesis, 246 p.
- Nickling, W.G. 1984. The stabilising role of bonding agents on the entrainment of sediment by wind. *Sedimentology*. 31: 111-117.
- Nickling, W.G. 1986. (ed). *Aeolian Geomorphology. Proceedings of the 17th Annual Binghamton Geomorphology Symposium*. Allen and Unwin. 311p.
- Nickling, W.G. and Ecclestone, M. 1981. The Effects of Soluble Salts on the Threshold Shear Velocity of Fine Sand. *Sedimentology*. 28: 505-510.
- Nicolaev, V.A. 1960. An Analysis of the Structure of Steppe and Semi-Desert Landscapes with Aerial Photographs. *Akademiia Nauk SSR, Izvestiya, Seriya Geograficheskaya, March-April*. pp. 82-.
- Nielsen, H.L. 1985. Shapes of sand grains estimated from grain mass and sieve size. In *Proceedings International Workshop on the Physics of Blown Sand. Department of Theoretical Statistics. University of Aarhus*. 677-688.
- Nielson, J. and Kocurek, G. 1984. Migrating Zibars of the Algodones Dune Field, Southeastern California (abs). *Society of Economic Paleontologists and Mineralogists, First Annual Midyear Meeting*. p. 50.
- Nielson, J. and Kocurek, G. 1986. Climbing Zibars of the Algodones. *Sedimentary Geology*, 48, 1-15.
- Niessen, A.G.H.M., Koster, E.A. and Galloway, J.P. 1984. Periglacial sand dunes and eolian sand sheets. An annotated bibliography. *United States Geological Survey Open-File Report* 84-167. 61p.
- Nigra, J.O. 1974. Relative Mobility of Sand Dunes as a Function of Grain Mineralogy. *International Journal of Biometeorology*. 18(2): 111-112.
- Niigata Ancient Dune Research Group. 1974. Niigata Sand Dune and Archeological Relics - the Geohistory of the Formation of the Niigata Sand Dunes, Part I. (in Japanese). *Quaternary Research, Japan*. 13(2): 57-70.
- Niigata Ancient Dune Research Group. 1978. The Sand of the Niigata Sand Dunes: The Geohistory of the Formation of the Niigata Sand Dunes, Part II. (in Japanese). *Quaternary Research, Japan*. 17(1): 25-38.
- Nikiforov, L.G. 1960. The Existence of an Outlet of the Uzboy through the Abzhaib. *Moskovskoho Universiteta, Vestnik, Seriya Geograficheskaya, May-June*. pp. 69-.
- Nishizawa, K. 1978. Old Sand Dunes in the Nobi Plain (in Japanese). *Journal of Geography, Tokyo*. 87(4): 42-46.
- Norris, R.M. 1956. Crescentic Beach Cusps and Barchans. *American Association of Petroleum Geologists, Bulletin*. 40: 1681-1686.
- Norris, R.M. 1966. Barchan Dunes of Imperial Valley, California. *Journal of Geology*. 74: 292-306.
- Norris, R.M. 1969. Dune Reddening and Time. *Journal of Sedimentary Petrology*. 39: 7-11.

- Norris, R.M., Keller, E.A. and Meyer, G.L. 1979. Geomorphology of the Salton Basin, California, Selected Observations. In Abbott, P.L. (ed). *Geological Excursions in the Southern California Area*. San Diego State University, Department of Geological Science. pp. 19-46.
- Norris, R.M. and Norris, K.S. 1961. Algodones Dunes of Southeastern California. *Geological Society of America, Bulletin*. 72(1): 605-620.
- Nowaczyk, B. 1967. Wydmy i Eoliczne Piaski Pokrywowe Miedzy Skokami a Miesciskiem. (Dunes and Eolian Cover Sands between Skoki and Miescisko). *Badania Fizjograficzne nad Polska Zachodnia, Seria A*. 19.
- Nowaczyk, B. 1976(a). Eolian Cover Sands in Central - West Poland. *Quaestiones Geographicae*. 3: 57-78.
- Nowaczyk, B. 1976(b). Geneza i Rozwaj Wydm Srodladowych w Zachodniej Czesci Pradoliny Warszawko - Berlinskiej w Swietle Badan Struktury, Uziarnienia i Stratygrafii Budujacych je Osadow. (The Genesis and Development of Inland Dunes in the Western Part of the Warsaw - Berlin Pradolina in the light of Examinations in the Structure, Granulation and Stratigraphy of the Deposits which Built Them. *Prace Komisji Geograficzno - Geologicznej, Poznanskie Towarzystwo Przyjaciol Nauk* 16. 109 pp.
- Nowaczyk, B. 1977. Morfologia; Cecky Strukturalne i Teksturalne Eolicznych Piaskow Pokrywowych w Swietle Dotychczasowych Pogladow. (Eolian Cover Sands; the Prevailing Notions on their Morphology and Structural and Textural Properties). *Przegląd Geograficzny*. 49(3): 573-580.
- Nowel, W., Atandsov, O. and Erd, K. 1972. Neve Ergebnisse Zur Duenenbewegung im Baruther Urstromtal, Geologische Untersuchung Einer Sandlagerstaette im Raume Cottbus. (New Data on Dune Migration in the Ice-Marginal Baruth Valley, Geology of a Sand Deposit at Cottbus). *Zeitschrift fuer Angewandte Geologie*. 18(9): 410-418.
- Nowicka, I. 1958. Les Dunes sur le Sandr de Brda. *Zeszyty Naukowe Uniw. M. Kopernika w Toruniu*, 4 (Geogr.). pp. 27-45.
- O'Brien, M.P. and Rindlaub, B.D. 1936. The Transportation of Sand by Wind. *Civil Engineering*. 6: 325-327.
- O'Brien, R.J. 1972. The Barchans of the Southern Namib: a Grain Size Analysis. *Proceedings, Fourth South African Student Geographical Conference*. pp. 22-31.
- Odynsky, W. 1958. U Shaped Dunes and Effective Wind Directions in Alberta. *Canadian Journal of Soil Science*. 35: 56-62.
- Ohmori, H. 1980. Removal of Dunes and its Climatic Significance in Australia (in Japanese). *Journal of Geography, Tokyo*. 89(3): 167-178.
- Ohmori, H., Iwasaki, K. and Takeuchi, K. 1983. Relationship Between the Recent Dune Activities and the Rainfall Fluctuations in the Sourthern Part of Australia. *Geographical Review of Japan*. 56(3): 131-150.
- Okolowicz, W. 1969. Proba Charakterystyki Warunkow Klimatycznych Okresu Rozwoju Wydm Srodladowych w Polsce. (Attempt of Characterizing Climatic Conditions of the Period of Inland Dune Development in Poland). In Galon, R. (ed). *Procesy i Formy Wydmowe w Polsce*. Polska Akademia Nauk, Instytut Geografii, Prace Geograficzne, Warsaw. 75.
- Oldham, R.D. 1903. A Note on the Sand Hills of Clifton, Near Karachi. *Geological Survey of India, Memoir*. 34(3): 133-157.
- Ollier, C.D. 1977. Outline Geological and Geomorphic History of the Central Namib Desert. *Madoqua*. 10: 207-212.
- Olson, J.S. 1958. Lake Michigan Dune Development. *Journal of Geology*. 66: 254-263, 345-351, 437-483.
- Ostrovskiy, I.M. 1976. O Roli Bokouyh Vetrov v Eolovom Rel'yefoobrazovanii. (The Role of Side Winds in the Formation of Eolian Relief). *Zemlevedeniye*. 11(51): 143-150.
- Otterman, J. and Cornitz, V. 1983. Saltation versus Soil Stabilization: Two Processes Determining the Character of Surfaces in Arid Regions. *Catena*. 10(4): 339-362.
- Ovchinnikov, G.D. 1970. O Stoyenii griv v Severo - O Kazakhstanskay Oblasti. (Dune Structure in North Kazakhstan). *Vsesoyuznoye Geograficheskoye Obshchestvo, Izvestiya*. 102(3): 293-294.
- Owen, P.R. 1964. Saltation of Uniform Grains in Air. *Journal of Fluid Mechanics*. 20(2): 225-242.
- Owen, P.R. 1980. *Sand Movement Mechanism*. Workshop on Physics of Desertification, International Centre for Theoretical Physics, Trieste, Italy.

- Owen, P.R. and Gillette, D. 1985. Wind tunnel constraint on saltation. In *Proceedings of International Workshop on the Physics of Blown Sand. Department of Theoretical Statistics. University of Aarhus.* 253-270.
- Page, K.J. 1971. Australian Landform Example No. 20; Riverine Source Bordering Sand Dune. *Australian Geographer.* 11(6): 603-605.
- Palauti, G. 1955. Au Sujet du Niger Fossile dans la Region de Tombouctou. *Revue de Geomorphologie Dynamique.* 6: 217-218.
- Pandey, S. 1971. Some Aspects of Geomorphology of the Indian Arid Zone. In Roy, B.B. et al (eds). *Proceedings of Symposium on the Arid Zone.* National Commission of Geography, Calcutta. pp. 28-32.
- Pandey, S., Singh, S. and Ghose, B. 1971. Orientation, Distribution and Origin of Sand Dunes in the Central Luni Basin. *Proceedings of Symposium on the Problems of Indian Arid Zone,* Jodhpur. pp. 91-94.
- Passarge, S. 1904. *Die Kalahari.* Berlin: Reimer. 822 p.
- Passarge, S. 1911. Die Pfannenformen Holfornen der Sudafrikanschen Steppen. *Petermanns Geographische Mitteilungen.* 57: 130-135.
- Passarge, S. 1940. Geomorphologische Problem aus Algerien. *Journal of Geomorphology.* 3: 108-130, 227-243.
- Patro, B.C. and Sahu, B.K. 1977. Discriminant Analysis of Sphericity and Roundness Data of Clastic Quartz Grains in Rivers, Beaches and Dunes. *Sedimentary Geology.* 19: 301-311.
- Patrone, A. 1970. *The Moses Lake Sand Dunes.* Washington State University, MSc Thesis.
- Paulhe, P. 1982. Pour une Nouvelle Definition de l'Erosion Differentielle; Actions Hydro - Eoliennes en Chaîne Iberique Orientale. *Revue Geographique des Pyrenees et du Sud-Ouest.* 53(4): 415-432.
- Peel, R.F. 1960. Some Aspects of Desert Geomorphology. *Geography.* 45: 241-262.
- Peel, R.F. 1966. The Landscape in Aridity. *Institute of British Geographers, Transactions and Papers, Publication* 38. 23 p.
- Peel, R.F. 1970. Landscape Sculpture by Wind. *International Geographical Congress, Paper.* 21: 99-104.
- Peel, R.F. 1979. Geomorphological Observations in Western Tibesti, 1961. In Borchardt, C. et al (eds). *Festschrift fuer Wolfgang Meckelein. Stuttgarter Geographische Studien.* 93: 53-66.
- Peel, R.F., Cooke, R.U. and Warren, A. 1974. The Study of Desert Geomorphology. *Geography.* 59(2): 121-138.
- Pelisek, J. 1963. Pleistozane Dunensande in der Tschechoslovakischen Sozialistischen Republik. *Eiszeitalter und Gegenwart.* 14: 216-223.
- Pelisek, J. 1972. Les Sols Fossiles dans les Sables Eoliens de Tchecoslovaquie (abs). In Ters, M. (ed). *Etudes sur le Quaternaire dans le Monde, Vol. 1.* pp. 383-384.
- Perez Oviedo, V.H. 1985. Un analisis preliminar de la Dunas de Palmira. *Politecnica.* 10: 77-90.
- Pernarowski, L. 1958. Les Recherches sur les Dunes de la Basse Silesie (in Polish). In Galon, R. (ed). *Wydmy Srodladowe Polski I.* PWN, Warszawa. pp. 171-198.
- Pernarowski, L. 1959. O Procesie Sorowania Piaskow Eolicznych na Przyktodzie Wydm Okolic Rzedzowa. (Summary: Notes on Sorting of Aeolian Sands). *Czasopismo Geograficzne.* 30: 33-60.
- Pernarewski, L. 1960. Application of Statistical Methods in Investigating Dunes Forms. *Przegląd Geograficzny, Supplement.* 32: 57-66.
- Pernarewski, L. 1962. O Prosesach Wydmocworczaych w Sweitte Badan Urtwalonych Form Wydmouch Delnego Slaska. *Czasopismo Geograficzne.* 33: 175-197.
- Pernarewski, L. 1966. Glacialna i Postglacialna Cyrkulacja Atmosfery w Swietle Kierunku Wiatrow wy Dmoworczych. (Glacial and Postglacial Atmospheric Circulation in the Light of Directions of Duneforming Winds). *Czasopismo Geograficzne.* 37(1): 3-24.
- Perret, R. 1961. Images Sahariennes. *Acta Geographica, Paris.* 39: 3-.
- Perthuisot, P. and Jauzein, A. 1975. Sebkhass et Dunes d'Argile; l'Enclave Endoreique du Pont du Fahs, Tunisie. *Revue de Geographie Physique et de Geologie Dynamique.* 17(3): 295-306.
- Pesce, A. 1968. *Gemini Space Photographs of Libya and Tibesti.* Petroleum Exploration Society of Libya, Tripoli. 81 p.

- Pesce, A. 1971. Erg Idrisi and Hamada Ibn Battutah; Two 'New' Geographical Features of Southeastern Libya. *Symposium on the Geology of Libya, University of Libya, Faculty of Science, Tripoli*. pp. 351-363.
- Petitjean, L. 1937(a). Carte Menuuelles de la Repartition des Vents de Sables et des Pluies au Sahara. *Office National Meteorologique de France, Memoire 27*.
- Petitjean, L. 1937(b). Generalites sur les Vents de Sable et Pluies de Boue. *Office National Meteorologique de France, Memoire 27*.
- Petrov, M.P. 1939. Bewegte Sande der Wuste, ihre Wanderungen und Akkumulationsformen. *Izvestiia Gos Geografii*. 71(8).
- Petrov, M.P. 1948. Le Relief des Barkhanes des Deserts et les Rapports de sa Genese avec la Theorie. *Akademiia Nauk SSSR, Institut Geografi, Vestnik*. 39: 184-.
- Petrov, M.P. 1960. Geograficheskie Issledovaniya v Pustynnyakh Tsentral'noi Azii. (Geographic Explorations in the Deserts of Central Asia). *Leningradskogo Universiteta, Vestnik 12, Seriya Geologii i Geografii*. 4: 118-130.
- Petrov, M.P. 1961. The Mineralogical and Granulometric Composition of the Eolian Sands of the Ordos, the Eastern Atashau and the Middle Yellow River (in Russian). *Leningradskogo Universiteta, Vestnik 6, Seriya Geologii i Geografii 1*.
- Petrov, M.P. 1962. On Grain size and Mineral Composition of Sands in East Central Asian Deserts (in Russian). *Leningradskogo Universiteta, Vestnik 12, Seriya Geologii i Geografii*. 2: 65-.
- Petrov, M.P. 1966. *The Deserts of Central Asia: the Ordos, Alashan and Perishan*. Washington, D.C.: United States Department of Commerce. 357 p.
- Petrov, M.P. 1967. *The Deserts of Central Asia; The Hoshi Corridor, Tsaodam and Tarim Basin*. United States Department of Commerce, Washington, D.C. 407 p.
- Petrov, M.P. 1975. *Deserts of the World*. London: John Wiley and Sons, 447 p.
- Petrov, M.P., Movchan, B.N. and Derevyanko, V.G. 1979. A Two Dimensional Space-Frequency Spectral Analysis of the Periodic Structure of a Wind Dune (in Russian). *Vestnik Leningradskogo Universiteta Geologiya-Geografiya*. 6(1): 108-110.
- Petrov, V.I. 1983. Shifting Sand Dune Stabilization in RSFSR Arid Zone. *Problemy Ostroeni Pustyn'*. 5: 60-62.
- Petrov, W.M. 1971. Die Innerasiatischen Wuesten im Verghleich zu den Vebrigen Ariden Raeumen der Noerdlichen Afroasiatischen Wuesten-Region. In Schiffers, H (ed). *Die Sahara und ihre Randgebiete: Darstellung eines Natur-Grossraumes; 1. Band Physiogeographie*. IFO Institut fuer Wirtschaftsforschung Meunchen Afrika-Studien. 60: 51-58.
- Petrushevskii, B.A. 1937. De l'Origine des Trainees de Sable du Karakum. *Gosudarstvennoe Geograficheskoe Obschestvo, Izvestiia*. 69(6): 956-967.
- Pettijohn, F.J., Potter, P.E. and Siever, R. 1972. *Sand and Sandstone*. New York: Springer-Verlag. 618 p.
- Phillips, C.J. and Willetts, B.B. 1978. A Review of Selected Literature on Sand Stabilization. *Coastal Engineering*. 2(2): 133-147.
- Phillips, J.A. 1882. The Red Sands of the Arabian Desert. *Geological Society of London, Quarterly Journal*. 38: 110-113.
- Pickard, J. 1972. Rate of Movement of Transgressive Dunes at Cronulla, New South Wales. *Journal of the Geological Society of Australia*. 19(2): 213-216.
- Picard, X. 1977. Estudio de un Campo de Dunas en la Region de Cocinetas, Goajira Venezoland. In Espejo, C.A. et al (ed). *Tema 1, Estratigrafia Paleontologia y Sedimentacion*. Congreso Geologica Venezuela. 5(1): 33-44.
- Pilarczyk, L. 1958. Les Dunes Situees entre Warta et la Notec (in Polish). In Galon, R. (ed). *Wydmy Srodladowe Polski II*. PWN, Warszawa. pp. 87-93.
- Pilarczyk, L. 1976. Miedzyrzecze Warcianski - Noteckie Jako Pole Wydmowe w Odniesieniu do Powierszni Terasowych i Innych. (The Warta - Notec Interfluve as a Dune Field with Regard to Terraces and other Surfaces). *Badania Fizjograficzne nad Polska Zachodnia, Seria A*. 29: 45-80.
- Pissart, A. 1966. Le Role Geomorphologique du Vent dans la Region de Mould Bay, Ile Prince Patrick. *Zeitschrift fur Geomorphologie*. 10: 226-236.
- Pissart, A. 1975. Banks Island, North West Territory; Pingos, Wind Action and Periglacial Structures. In *Report of Activities, Quaternary Sedimentology and Geomorphology*. Canadian Geological Survey Paper. 75-1(A): 479-481.

- Pissart, A., Vincent, J.S. and Edlund, S.A. 1977. Depots et Phenomenes Eoliens sur l'Ile de Banks, Territoire du Nord-Ouest, Canada. *Canadian Journal of Earth Science*. 14: 2462-2480.
- Poldervaart, A. 1957. Kalahari Sands. In *Pan-African Congress on Prehistory, 3rd, Livingstone, Proceedings*. pp. 106-114.
- Polianski, W. 1956. Pleistocene in the Vistula Gap across the Southern Uplands. *Polish Institut of Geology, Warszawa. Geological Studies IX*.
- Polkanova, L.P. 1978. Ecolovyy Rel'yef. (Eolian Relief). In Maksimov, S.P. et al (eds). *Osnovy Metodiki Strukturno-Geomorfologicheskikh Issledovaniy pri Neftegazopoiiskovykh Rabotakh*. Vsesoyuznyy Nauchno-Issledovatel'skiy Geologorazvedochnyy Neftyanoy Institut, Trudy, Moscow. 198: 177-195.
- Pollack J., Haberle, R., Greeley, R. and Iversen, J. 1976. Estimates of the Wind Speeds Required for Particle Motion on Mars. *Icarus*. 29: 395-417.
- Pompeckj, J.F. 1906. Barchans in Southern Peru. *Centralblatt fur Mineralogie, Geologie und Palaontologie*. p. 373.
- Pool, R.J. 1913. Glimpses of the Great American Desert. *Popular Science Monthly*. 80: 209-235.
- Porter, M.L. 1986. Sedimentary record of erg migration. *Geology*. 14: 497-500.
- Poser, H. 1950. Zur Rekonstruktion der Spätglazialen Luftdruckverhältnisse in Mittel- und Westeuropa auf Grund der Vorzeitlichen Binnendünen. *Erdkunde*. 4: 81-88.
- Powers, R.W. et al. 1966. *Geology of the Arabian Peninsula: Sedimentary Geology of Saudi Arabia*. United States Geological Survey, Professional Paper 560-D. 147 p.
- Prescott, J.A. and Piper, C.S. 1932. The Soils of the South Australian Mallee. *Royal Society of South Australia, Transactions*. 56: 118-146.
- Prescott, J.R.V. and White, H.P. 1960. Sand Formations in the Niger Valley between Niamey and Bourem. *Geographical Journal*. 126: 200-203.
- Prestel, D.J., Wainwright, J.E. and El-Baz, F. 1979. Mineralogy and Morphology of the Coatings on Sand Grains from the Gilf Kebir, Southwest Egypt (abs). *EOS. Transactions of the American Geophysical Union*. 60(46): 872.
- Pribly, V. 1970. Písečné Ceriny v Ablasti Abu Roasch a Giran el Ful u Kahiry. (Dunes in the Abu Roasch and Giran El Ful near Kahira). *Ceskoslovenska Spolecnost Zemepisna Sbornik*. 75(2): 163-166.
- Pribly, V. 1972. Geomorfologie Navatých Písku v Čechách. (Geomorphology of Eolian Sands in Czechoslovakia). *Ceskoslovenska Akademie Ved, Rozpravy Rada Matematických Přírodních Ved*. 82(1): 69 p.
- Price, W.A. 1933. Role of Diastrophism in the Topography of the Corpus Christi County, Texas. *American Association of Petroleum Geologists, Bulletin*. 17(8): 907-962.
- Price, W.A. 1944. Greater American Deserts. *Proceedings and Transactions, Texas Academy of Science*. XXVII: 163-170.
- Price, W.A. 1950. Saharan Sand Dunes and the Origin of the Longitudinal Dunes; a Review (of Capot-Rey and Capot-Rey, 1948). *Geographical Review*. 40(3): 462-465.
- Price, W.A. 1958. Sedimentology and Quaternary Geomorphology of South Texas. *Gulf Coast Association of Geological Societies, Transactions*. 8: 410-475.
- Price, W.A. 1959. The Barchans of Southern Peru; a Review (of Finkel, 1959). *Geographical Review*. 50(4): 585-586.
- Price, W.A. 1962. Stages of Oxidation Coloration in Dune and Barrier Sands with Age (abs). *Geological Society of America, Bulletin*. 73(10): 1281-1283.
- Price, W.A. 1963. Physico-Chemical and Environmental Factors in Clay Dune Genesis. *Journal of Sedimentary Petrology*. 33: 766-778.
- Price, W.A. 1964. The Sand Ridge Deserts of Australia. *Geographical Review*. 54: 118-120.
- Priesmeier, K. 1970. Form und Genese der Dünen des Listlands auf Sylt. *Naturwissenschaftlicher Verein für Schleswig - Holstein, Schriften* 40: 11-51.
- Prusinkiewicz, Z. 1969. Gleby Wydm Srodladowych w Polsce. (Soils of Inland Dunes in Poland). In Galon, R. (ed). *Procesy i Formy Wydmowe w Polsce*. Polska Akademia Nauk, Instytut Geografii, Prace Geograficzne, Warsaw. 75: 117-144.
- Pullan, R.A. 1969. Geomorphology and Pedological Investigations in the South Central Part of Chad Basin, Nigeria. *Palaeoecology of Africa*. 4: 49-52.

- Purdie, R.** 1984. *Land Systems of the Simpson Desert Region*. CSIRO Division of Water and Land Resources, Natural Resources Series 2. 71 p.
- Pye, K.** 1981. Rate of Dune Reddening in A Humid Tropical Climate. *Nature*. 290: 582-584.
- Pye, K.** 1983. Early Post Depositional Modification of Aeolian Dune Sands. In Brookfield, M.E. and Ahlbrandt, T.S. (eds). *Eolian Sediments and Processes*. Developments in Sedimentology 38. Amsterdam: Elsevier. pp. 197-222.
- Pye, K.** 1985. Controls on fluid threshold velocity, rates of aeolian sand transport and dune grain size parameters along the Queensland coast. In *Proceedings of International Workshop on the Physics of Blown Sand*. Department of Theoretical Statistics. University of Aarhus. 483-510.
- Pye, K. and Singhvi, A.K.** 1982. Thermoluminescence Dating of Sand Dunes: Discussion and Reply. *Nature*. 299(5881): 376.
- Pyritz, E.** 1972. Binnendünen und Flugsandebenen in Niedersächsischen Tiefland. (Dunes and Cover Sands in the Lowlands of Lower Saxony). *Gottlinger Geographische Abhandlungen*. 61: 111 p.
- Pyritz, E.** 1974. Aeolische Prozesse an Einer Binnenduene im Allertal, Niedersächsisches Tiefland. (Eolian Processes on an Inland Dune in Aller Valley in the Lower Saxony Lowland). *Akademiya der Wissenschaften in Goettingen Mathematische - Physikalische Klasse Abhandlungen*. 3(29): 221-225.
- Pyskin, N.M. and Davidson-Arnott, R.G.D.** 1985. Morphology, sedimentology and origin of a post-glacial dunefield, Bruce Peninsular, Ontario. Abstract In *Proceedings of Conference on Great Lakes Research*, Milwaukee. p 59.
- Queney, P.** 1953. Classification des Rides de Sable et Théorie Ondulatoire de leur Formation. In *Actions Eoliennes*. Centre National de Recherches Scientifiques, Paris, Colloques Internationaux. 35: 179-195.
- Queney, P. and Dubief, J.** 1943. Action d'un Obstacle ou d'un Fosse sur un Vent Charge de Sable. *Institut de Recherches Sahariennes, Travaux*. 2: 169-176.
- Rabasso, V.J.** 1975. Environmental Significance of Mitare Clay Dunes, Northwestern Venezuela (abs). *American Association of Petroleum Geologists and the Society of Economic Paleontologists and Mineralogists Annual Meeting Abstracts*. 2: 61.
- Rachkovskaya, S.I. and Gunne, P.D.** 1980. On Complex site Investigations in the Transaltai Gobi (in Russian). *Problemy Osvoeniya Pustyn'*, *Akademiya Nauk Turkmeniskoi SSR*. 2: 5-12.
- Radulescu, N.A.I.** 1968. Caracteres Physico - Geographiques, Fixation et Mise en Valeur Actuelle des Dunes de Roumaine. *Revue Roumaine de Geologie, Geophysique et Geographie, Serie de Geographie*. 12(1-2): 73-78.
- Raikes, R.L.** 1969. Formation of Deserts in the Near East and North Africa; Climatic, Tectonic, Biotic and Human Factors. In McGinnies, W.G. and Goldman, B.J. (eds). *Arid Lands in Perspective*. American Association for the Advancement of Science, Washington, D.C. and University of Arizona Press, Tucson. pp 145-154.
- Rakhmatov, B. and Nazarov, I.K.** 1982(a). Main Types of Aeolian Sands of Karakul Delta and Problems of their Development (in Russian). *Problemy Osvoeniya Pustyn'*, *Akademiya Nauk Turkmeniskoi SSR*. 1: 46-50.
- Rakhmatov, Yu.B. and Nazarov, I.K.** 1982(b). Principal Types of Aeolian Relief in the Karakul Delta of the Zeravshan River and Problems of their Development. *Problems of Desert Development*. 1: 47-52.
- Randell, D.** 1958. The Dune System and Dune Slack Habitat. *Journal of Ecology*. 47: 571-601.
- Range, P.** 1936. Explanatory Note to the Geological Sketch Map of the Western Part of the Kalahari. *South African Geographical Journal*. 19: 58-60.
- Rasmussen, K.R., Sorensen, M. and Willetts, B.B.** 1985. Measurement of saltation and wind strength on beaches. In *Proceedings of International Workshop on the Physics of Blown Sand*. Department of Theoretical Statistics. University of Aarhus. 301-326.
- Raukas, A.** 1968. Eesti Luitetiivade Koostisest ja Kihilisusest. (Composition and Stratification of Dune Sands in Estonia). *Eesti Geograafia Selts, Aastaraamat 1966*: 72-88.
- Raupach, M.R. and Bradby, E.F.** 1986. Some influences of wind patterns and dynamics on aeolian transport. *Abstracts 12th International Congress on Sedimentology*. Canberra, Australia. p 253.

- Ravikovitch, S. 1953. The Aeolian Soils of the Northern Negev. In *Desert Research Proceedings, International Symposium, Jerusalem*. Research Council of Israel, Special Publication. 2: 404-433.
- Reding, L.M., Williams, S., Leach, R., White, B.R. and Greeley, R. 1981. Surface Roughness Effects on Aeolian Processes: Wind Tunnel Experiments. *Reports of Planetary Geology Program*. NASA TM-84211: 195-196.
- Reed, R.D. 1930. Recent Sands of California. *Journal of Geology*. 38: 223-245.
- Reed, W.E., Le Fever, R. and Moir, G.J. 1975. Depositional Environment Interpretation from Settling Velocities (psi) Distributions. *Geological Society of America, Bulletin*. 86: 1321-1328.
- Reeves, C.C., Jr. 1965. Chronology of West Texas Pluvial Lake Dunes. *Journal of Geology*. 73: 504-508.
- Reid, D. G. 1985. Wind statistics and the shape of sand dunes. In *Proceedings of International Workshop on the Physics of Blown Sand*. Department of Theoretical Statistics. University of Aarhus. 393-420.
- Reifenberg, A. 1947. *The Soils of Palestine*. 2nd Ed. London: T. Munbt and Co.
- Reincke, J. 1903. Die Entwicklungsgeschichte der Dunen an der Westkuste von Schleswig. K. Preussische Akademie der Wissenschaften, Berlin, *Sitzungsberichte* 1.
- Reineck, H-E. and Singh, I.B. 1980. *Depositional sedimentary environments with reference to terrigenous clastics*. 2nd revision. Springer: Berlin, Heidelberg, New York. 549 p.
- Rempel, P. 1936. The Crescentic Dunes of the Salton Sea and their Relation to Vegetation. *Ecology*. 17: 347-358.
- Revzon, A.L., Burleshin, M.I., Krapil'skaya, N.M., Sadov, A.V., Svitneva, T.V. and Simina, N.S. 1982. Study of the Desert Geological Environment with the Aid of Aerial and Space Imagery. *Problems of Desert Development*. 1: 19-27.
- Ricard, M.D. 1980. Barchans on the Move (abs). In Ricard, M.D. (ed). *Henry Mountain Symposium*, Utah Geological Association Publication. 8: 243-244.
- Richards, K.J. 1986. Turbulent flow over topography with application to sand wave development. In El Baz, F. and Hassan, M.H.A. (eds). *Physics of Desertification*. Martinus Nijhoff. pp. 435-461.
- Rickert, D.A. and Tedrow, J.C.F. 1967. Pedologic Investigations on some Aeolian Deposits in Northern Alaska. *Soil Science*. 104: 250-262.
- Rieman, H.M. 1978. Barchans. *Lapidary Journal*. 32(8): 1844-1847.
- Rim, M. 1948. *The Movement of Dunes and the Origin of Red Sand in Palestine from a Physical Point of View*. Hebrew University, Jerusalem. Thesis.
- Rim, M. 1950. Sand and Soil in the Coastal Plain of Israel. *Israel Exploration Journal*. 1(1).
- Rim, M. 1951(a). The Influence of Geophysical Processes on the Stratification of Sandy Soils. *Journal of Soil Science*. 2: 188-195.
- Rim, M. 1951(b). The Influence of Geophysical Processes on the Stratification of Sandy Soils. *Journal of Soil Science*. 2: 188-195.
- Rim, M. 1953(a). Le Classements des Mineraux du Sable par les Agents Naturels sur les Dunes. In *Actions Eoliennes*. Centre National de Recherches Scientifiques, Paris, Colloques Internationaux. 35: 259-.
- Rim, M. 1953(b). Les Classements des Mineraux du Sable par les Agents Naturels sur les Dunes. In *Action Eoliennes*. Centre National de Recherches Scientifiques, Paris, Colloques Internationaux. 35: 261-276.
- Rim, M. 1958. Simulation, by Dynamical Model, of Sand Tract Morphologies Occurring in Israel. *Research Council of Israel, Bulletin*. 7-G(2/3): 123-.
- Ritter, E. 1898. Les Dunes. *Globe*. 37: 22-31.
- Roa Morales, P. 1973. Genesis of the Dunes of the Central Plains of Venezuela (abs). *Congress of the International Union for Quaternary Research*. 9: 248-249.
- Roberts, J.M. 1970. The Wandering Sands. *Americas*. 22(8): 9-14.
- Robinson, M.D. and Seely, M.K. 1980. Physical and Biotic Environments of the Southern Namib Dune Ecosystem. *Journal of Arid Environments*. 3: 183-203.
- Rochette, J.C. and Cailleux, A. 1971. Depots Niveo - Eoliens Annuels a Poste-de-la-Baleine, Nouveau - Quebec. *Revue Geographique, Montreal*. 2591: 35-41.
- Roethel, J. 1981. Sand Dunes Tell Story of Ages. *Natural Resources Register*. 1(3): 16-17.
- Rogers, A.W. 1934. The Build of the Kalahari. *South African Geographical Journal*. 17: 3-12.

- Rogers, A.W. 1936. The Surface Geology of the Kalahari. *Royal Society of South Africa, Transactions*. 24(1): 57-80.
- Rogers, J. 1977. *Sedimentation on the Continental Margins of the Orange River and the Namib Desert*. Joint Geological Survey/ University of Cape Town Marine Geoscience Group, Bulletin 7. 162 p.
- Rogers, J. 1979. Dispersal of sediment from the Orange River along the Namib Desert coast. *South African Journal of Science*. 75: 567.
- Rogers, J. and Tankard, A.J. 1974. Surface textures of some quartz grains from the west coast of southern Africa. *Proceedings Southern Africa Electron Microscopy Society*. 4: 55-56.
- Rognon, P. 1979. Evolution du Relief at Paleoclimats Depuis 40 000 Ans sur le Bordure Nord du Sahara. *Colloque sur Variations Climatiques et Geomorphologique sur le Bordure Nord du Sahara. Association Geographique Francais, Bulletin*. 56(462-463): 205-214.
- Rognon, P. 1982. Pluvial and Arid Phases in the Sahara; the Role of Non Climatic Factors. *Palaeoecology of Africa*. 12: 45-62.
- Rognon, P. and Williams, M.A.J. 1977. Late Quaternary Climatic Changes in Australia and North Africa; a Preliminary Interpretation. *Palaeogeography, Palaeoclimatology, Palaeoecology*. 21(4): 285-328.
- Rohdenburg, H. and Sabelberg, U. 1980. Northwestern Sahara Margin; Terrestrial Stratigraphy of the Upper Quaternary and some Paleoclimatic Implications. *Palaeoecology of Africa*. 12: 267-275.
- Rolland, G. 1881. Sur les Grands Dunes de Sable du Sahara. *Societe Geologique de France, Bulletin, Serie 3*. 10: 30-47.
- Romanova, M.A. 1971. Sovremennyye Peschanyye Otlozheniya Tsentral'nykh Karakumov; Opyt Ispol'zovaniya Dvumernykh Regressiy Dlya Paleogeograficheskikh Postroyeniy. (Present Day Sand Deposits of Central Karakum; Application of Regression Equations to Paleogeographic Synthesis). *Akademiya Nauk SSSR, Geologicheskii Institut*. 256 p.
- Rosenan, E. 1953. Discussion of Bagnold (1953a). In *Desert Research, Proceedings, International Symposium, Jerusalem*. Research Council of Israel, Special Publication. 2: 94.
- Rosenan, E. 1954. The Direction of Seif Dunes and Wind in Sinai and Negev (in Hebrew). 4 p.
- Roszkó, L. 1969. O Wydmach Zachodniej Czesci Basenu Grudziadzkiego. (Dunes of the Western Grudziadz Basin). In Galon, R. (ed). *Procesy i Formy Wydmowe w Polsce. Polska Akademia Nauk, Instytut Geografii, Prace Geograficzne, Warsaw*. 75: 163-180.
- Roth, E. 1900. Die Detuschen Dunen und ihr Bau. *Globus*. 78(3): 48-52.
- Roth, E.S. 1960. The Silt-Clay Dunes at Clark Dry Lake, California. *Compass*. 38: 18-27.
- Rotnicki, K. 1970. Głównie Problemy Wydm Srodladowych w Polsce w Swietle Badan Wydm w Weglewicach. (Main Problems of Inland Dunes in Poland Based on Investigations of the Dune at Weglewice). *Prace Komisja Geograficznych - Geologiczne*. 11(2).
- Rotnicki, K. and Tobolski, K. 1969. Głowne Fazy Dzialalnosci Procesow Wydmotwarczych w Kotlinie Grabowskiej na Podstawie Stratygrafii Wydm w Weglewicach. (Main Phases of Dune-Forming Processes in the Grablow Basin, Based on the Stratigraphy of a Dune near Weglewice). In Galon, R. (ed). *Procesy i Formy Wydmowe w Polsce. Polska Akademia Nauk, Instytut Geografii, Prace Geograficzne, Warsaw*. 75: 239-247.
- Rotnicki, K. and Lomborinchen, R. 1978. Eolian Forms and Deposits in the Bahan - Nuurin - Khotnor Basin in the Khangai Mountains. *Bulletin de l'Academie Polonaise des Sciences, Serie des Sciences de la Terre*. 25(3-4): 133-139.
- Row, J.S. and Abouguenda, Z.M. 1982. The Lake Athabasca Sand Dune of Saskatchewan: a Unique Area. *Musk-Ox*. 30: 1-22.
- Rowlands, P., Johnson, H., Ritter, E. and Endo, A. 1982. The Mojave Desert. In Bender, G.L. (ed.) *Reference Handbook on the Deserts of North America*. Westport: Greenwood Press. pp. 103-162.
- Rubin, D.M. 1984. Factors determining desert dune type. *Nature*. 309: 91-92.
- Rubin, D.M. and Hunter, R.E. 1982. Bedform Climbing in Theory and Nature. *Sedimentology*. 32: 147-157.

- Rubin, D.M. and Hunter, R.E. 1985. Why Deposits of Longitudinal Dunes are Rarely Recognized in the Geologic Record. *Sedimentology*. 32: 147-157.
- Rutford, R.H. and Calkin, P.E. 1974. Reversing Barchan Dunes in Lower Victoria Valley, Antarctica; Discussion. *Geological Society of America, Bulletin*. 85(6): 1011-1012.
- Rutten, M.G. 1954. Deposits of Cover Sand and Loess in the Netherlands. *Geologie en Mijnbouw*. 16: 127-129. pp. 623-673.
- Rumpel, D.A. 1985. Successive Aeolian Saltation: Studies of Idealised Conditions. *Sedimentology*. 32: 267-280.
- Russell, R.J. 1932. Landforms of the San Geronio Pass, Southern California. *University of California Publications in Geography*. 6: 106-114.
- Rust, U. 1979. Ueber Konvergenzen in Wuestenrelief am Beispiel der Suedwestafrikanischen Namibwueste. (Convergencies in Desert Relief with the Example of the Namib Desert of South West Africa; "Skittkueste" and Central Namib). *Mitteilungen der Geographische Gesellschaft in Muenche*. 64: 201-216.
- Rust, U. 1980. Models in Geomorphology - Quaternary Evolution of the Actual Relief Pattern of Coastal, Central and Northern Namib Desert. *Proceedings of the Fifth South African Society for Quaternary Research. Paleontologia Africana*. 23: 173-184.
- Rust, U. 1984. Geomorphic Evidence of Quaternary Environmental Changes in Etosha. In Vogel, J.C. (ed). *Late Cainozoic Paleoclimates of the Southern Hemisphere*. Proceedings of the International Symposium held by the South African Society for Quaternary Research. Rotterdam: A.A. Balkema. pp. 279-286.
- Rust, U. and Wieneke, F. 1973. Die Rundungsgradanalyse nach Reichelt als Feldmethode in Trockengebieten. (Analysis of the Degree of Roundness Proposed by Reichelt as a Field Method in Arid Regions). *Petermanns Geographische Mitteilungen*. 117(2): 118-123.
- Rust, U. and Schmidt, H.H. 1981. Der Fragenkreis Jungquartarer Klimaschwankungen im Sud Westafrikanischen Sektor des Heute Aride Sudlichen Afrika. *Mitteilungen der Geographische Gesellschaft in Muenche*. 66: 142-174.
- Rust, U. and Wieneke, F. 1976. Geomorphologie der Kustennahen Zentralen Namib (Sud Westafrika). *Munchener Geographische Abhandlungen*. 19: 1-74.
- Sahu, B.K. 1982. Multigroup Discrimination of River, Beach and Dune Sands Using Roundness Statistics. *Journal of Sedimentary Petrology*. 52(3): 779-784.
- Said, R. 1962. *The Geology of Egypt*. New York: Elsevier. 377 p.
- Said, R. 1983. Remarks on the Origin of the Landscape of the Eastern Sahara. *Journal of African Earth Sciences*. 1(2): 153-158.
- Salaun-Penquer, G., Nassar, C. and Guillaume, R. 1983. Resolution of Equations Governing the Saltation Motion in the Air. In Sumer, B.M. and Muller, A. (eds). *Mechanics of Sediment Transport*. Proceedings Euromech 156: 49-54.
- Sall, M. 1973. La Cote Nord de la Presqu'île du Cap-Vert. Nouvelles Observations de Geomorphologie Dynamique. *Bulletin de l'Institut Fondamental d'Afrique Noire A*. 35(4): 741-763.
- Sandford, K.S. 1933(a). Geology and Geomorphology of the Southern Libyan Desert. *Geographical Journal*. 82: 213-219.
- Sandford, K.S. 1933(b). Man and Pleistocene Climate of the Northwest Sudan (abs). *International Geological Congress, 16th, Washington*. 2: 218.
- Sandford, K.S. 1933(c). Past Climate and Early Man in the Southern Libyan Desert. *Geographical Journal*. 82: 219-222.
- Sandford, K.S. 1935. Geological Observations on the Northwest Frontiers of the Anglo-Egyptian Sudan and the Adjoining part of the Southern Libyan Desert. *Royal Geological Society of London, Quarterly Journal*. 91: 323-281.
- Sandford, K.S. 1953. Notes on Sand-Dunes and Artesian Water in Egypt and Sudan. *Geographical Journal*. 119: 363-366.
- Sarnthein, M. 1978. Sand Deserts During Glacial Maximum and Climatic Optimum. *Nature*. 272: 43-46.
- Sarnthein, M. and Walger, K. 1974. Der Aolische Sandstrom aus der W-Sahara zur Atlantikküste. *Geologische Rundschau*. 63: 1065-1087.
- Satterwhite, M.B. and Ehlen, J. 1981. *Landform - Vegetation Relationships in the Northern Chihuahuan Desert*. United States Army Engineer Topographic Laboratories, Fort Belvoir, Virginia. 21 p.

- Saucier, R.T. 1978. Sand Dunes and Related Eolian Features of the Lower Mississippi River Alluvial Valley. *Geoscience and Man*. 19: 23-40.
- Savat, J. 1982. Common and Uncommon Selectivity in the Process of Fluid Transportation: Field Observations and Laboratory Experiments on Bare Surfaces. *Catena, Supplement. 1*: 139-159.
- Sawicki, L. 1958. Le Probleme de l'Age des Dunes (in Polish). In Galon, R. (ed). *Wydmu Srodoladowe Polski I*. PWN, Warszawa. pp. 53-71.
- Saxena, S.K and Singh, S. 1977. Some Observations on the Sand Dunes and Vegetation of Bikaner District in Western Rajasthan. *Annals of the Arid Zone*. 15: 313-322.
- Scheidegger, A.E. 1961. Theory of Aeolian Features. In *Theoretical Geomorphology*. Berlin: Springer Verlag. pp. 287-291.
- Schelling, J. 1957. Herkunft, Aufbau und Bewertung der Flugsande Binnellande. *Erdkunde*. 11: 129-135.
- Schenk, C.J. 1982. *Analysis of Stratification Produced by Eolian Sand Ripples*. University of Michigan, Ann Arbor, MSc Thesis.
- Schenk, C.J. 1983. Textural and Structural Characteristics of Some Experimentally Formed Eolian Strata. In Brookfield, M.E. and Ahlbrandt, T.S. (eds). *Eolian Sediments and Processes*. Developments in Sedimentology 38. Amsterdam: Elsevier. pp. 27-40.
- Schenk, C.J. and Fryberger, S.G. 1986. Early diagenesis in eolian dune and interdune sands at White Sands, New Mexico. Abstract, *12th International Congress on Sedimentology*. Canberra. p 268.
- Schenze, W. 1968. Binnendünenbildungen Südlich von Weisswasser. (Inland Dunes South of Weisswasser). *Geologie. (Berlin)*. 17(4): 473-474.
- Schick, A.P. and Sharon, D. 1974. *Geomorphology and Climatology of Arid Watersheds*. Hebrew University, Department of Geography, Report No. DAJA-72-C-3874, 161 p.
- Schiffers, H. (ed). 1971(a). *Die Sahara und ihre Randgebiete; Darstellung eines Natur-Grossraumes; 1. Band Physiogeographie*. IFO Institut fuer Wirtschaftsforschung Muenchen Afrika-Studien 60. 664 p.
- Schiffers, H. 1971(b). Die Sahara und die Vebrigen Wuesten. In Schiffers, H. (ed). 1971. *Die Sahara und ihre Randgebiete; Darstellung eines Natur-Grossraumes; 1. Band Physiogeographie*. IFO Institut fuer Wirtschaftsforschung Muenchen Afrika-Studien 60.
- Schiffers, H. (ed). 1973(a). *Die Saharan und ihre Randgebiete Darstellung eines Natur-Grossraumes; 3. Band Regionalgeographie*. IFO Institut fuer Wirtschaftsforschung Muenchen Afrika-Studien 62. 746 p.
- Schiffers, H. 1973(b). Die Suedgrenze der Sahara und ihr Suedliches Randgebiet. In Schiffers, H. (ed). *Die Saharan und ihre Randgebiete Darstellung eines Natur-Grossraumes; 3. Band Regionalgeographie*. IFO Institut fuer Wirtschaftsforschung Muenchen Afrika-Studien 62: 654-728.
- Schmalz, R.F. 1968. Formation of Red Beds in Modern and Ancient Deserts. Discussion. *Geological Society of America, Bulletin*. 79: 277-280.
- Schmidt, R. 1971. Die Weichselzeit im Uebergangsbereich ZwischenLoess und Treibsand in Nordsachsen (Grossenhainer Gebiet). *Ceskoslovenska Akademiya Ved, Geograficky Ustav, Zpravy*. 8(6): 1-23.
- Schmidt, R.H. Jr and Marston, R.A. 1983. The Samalyuca Dune Field, Chihuahua Mexico. In Clark, K.F. (ed). *Geology and Mineral Resources of North-Central Chihuahua*. El Paso Geological Society. 14: 417-423.
- Schoeller, H. 1945. Le Quaternaire de la Saoura et du Grand Erg Occidental. *Institut de Recherches Sahariennes, Travaux*. 3: 57-.
- Scholz, H. 1972. The Soils of the Central Namib Desert with Special Consideration of the Soils in the Vicinity of Gobabeb. *Madoqua, Series II*. 1: 35-51.
- Schoeneich, K. 1958. Remarks on the Morphology of Dunes in the Vicinity of Warsaw. *Przeglad Geologiczny*. 6: 40-42.
- Schultz, J.D. 1980. *Geomorphology, Sedimentology and Quaternary History of the Eolian Deposits, West Central San Juan Basin, Northwest New Mexico*. University of New Mexico, MSc Thesis.
- Schulze, E. and Whitney, J.W. 1986. Vegetation in north-central Saudi Arabia. *Journal of Arid Environments*. 10: 175-186.
- Schwarzbach, M. 1974. Geologische Taetigkeit des Windes. (Geologic Function of Wind). In Brinkmann, R. et al. (eds). *Lehrbuch der Allgemeinen Geologie; Festland, Meer. Vol. 1*. Stuttgart: Ferdinand Enke Verlag. pp. 260-290.

- Seely, M.K. 1975. Namib Dune Coast Reconnaissance. *Namib und Meer*. 5: 15-26.
- Seely, M.K. 1978. The Namib Dune Desert; an Unusual Ecosystem. *Journal of Arid Environments*. 1: 117-128.
- Seevers, P.M., Lewis, D.T. and Drew, J.V. 1975. Use of ERTS-1 imagery to interpret the wind erosion hazard in Nebraska's Sandhills. *Journal of Soil and Water Conservation*. 30 (4): 181-183.
- Segerstrom, K. 1962. Deflated Marine Terrace as a Source of Dune Chains, Atacama Province, Chile. *United States Geological Survey, Professional Paper 450-C*: 91-93.
- Segerstrom, K. 1964. Quaternary Geology of Chile, Brief Outline. *Geological Society of America, Bulletin*. 75(3): 157-170.
- Selby, M.J. 1976. Some Thoughts on the Geomorphology of the Central Namib Desert. *Namib Bulletin*. 1: 5-6.
- Selby, M.J. 1977. Paleowind Directions in the Central Namib Desert, as Indicated by Ventifacts. *Madoqua*. 10(3): 195-198.
- Selby, M.J., Rains, R.B. and Palmer, R.W.P. 1974. Eolian Deposits of the Ice-Free Victoria Valley, Southern Victoria Land, Antarctica. *New Zealand Journal of Geology and Geophysics*. 17(3): 543-562.
- Selivanou, E. 1982. The Dasht-e Lut Desert of Iran. *Problems of Desert Development*. 1: 13-18.
- Selivanov, Y.I. 1961. Forms of Eolian Sand Accumulations in the Western Part of Central Asia. *Moskovskogo Universiteta, Vestnik*.
- Selivanov, Ye, I. 1969. Eolovvye Peski Mongolii ikh Proiskhozhdeniye. (The Eolian Sands of Mongolia and their Origin). *Moskovskiy Universitet, Vestnik, Seriya Geografii*. 24(5): 75-83.
- Sen, A.K. 1967. Photo-Interpretation to Study Arid Zone Geomorphology. In *Symposium International de Photo-Interpretation 11. Groupe IV*. Institut Francais de Petrole, Revue. 21(12): 1903-1906.
- Sen, A.K. 1977. Aerial photo interpretation to analyse the land use pattern of sand dunes. *Geographical Review of India*. 39 (4): 346-352.
- Seppala, M. 1969. On the Grain Size and Roundness of Wind Blown Sands in Finland as Compared with Some Central European Samples. *Geological Society of Finland, Bulletin*. 41: 165-181.
- Seppala, M. 1971. Evolution of Eolian Relief of the Kaamasjoki - Kiellajoki River Basin in Finnish Lapland. *Fennia*. 104: 4-88.
- Seppala, M. 1972(a). Location, Morphology and Orientation of Inland Dunes in Northern Sweden. *Geografiska Annaler, Series A*. 54A(2): 85-104.
- Seppala, M. 1972(b). Location, Morphology and Orientation of Inland Dunes in Northern Sweden. *Publicationes Instituti Geographici Universitatis Turkuensis*. 59, 20 p.
- Seppala, M. 1972(c). Some Remarks on the Formation of Scratch Circles on Wind Blown Sands. *Geological Society of Finland, Bulletin*. 44(2): 131-132.
- Seppala, M. 1975. International Research Programme for Periglacial Sand Dune Studies - a Recommendation. *Quaestiones Geographicae*. 2: 139-144.
- Seppala, M. and Linde, K. 1978. Wind Tunnel Studies of Ripple Formation. *Geografiska Annaler*. 60(A): 29-42.
- Seth, S.K. 1978. The Desiccation of the Thar Desert and its Environs during the Protohistory and Historical Periods. In Brice, W.C. (ed). *The Environmental History of the Near and Middle East Since the Last Ice Age*. London: Academic Press. pp. 279-305.
- Setlow, L.W. 1978. Age Determination of Reddened Coastal Dunes by Scanning Electron Microscopy. In Whalley, W.B. (ed). *Scanning Electron Microscopy in the Study of Sediments, Symposium Proceedings*. pp. 283-306.
- Sevenet, Lieut. 1943. Etude sur le Djouf (Sahara Occidental). *Institut Francais d'Afrique Noire, Bulletin*. 5: 1-26.
- Sevon, W.D. 1966. Distinction of New Zealand Beach, Dune and River Sands by their Grain Size Distribution Characteristics. *New Zealand Journal of Geology and Geophysics*. 9(3): 212-223.
- Shackley, M. 1980. An Acheulian industry with *Elephas reckii* fauna from Namib IV, South West Africa (Namibia). *Nature*. 284: 240-241.
- Shackley, M. 1982. Namib IV and the Acheulian Technocomplex in the Central Namib Desert, South West Africa. *Palaeoecology of Africa*. 14: 151-160.
- Sharp, R.P. 1962. Measurements on Desert Dunes - a Testing of Some Concepts. *Geological Society of America, Special Paper*. 73: 238-239.
- Sharp, R.P. 1963. Wind ripples. *Journal of Geology*. 71: 617-636.
- Sharp, R.P. 1964. Wind-driven sand in Coachella Valley, California. *Geological Society of America Bulletin*. 75: 785-804.

- Sharp, R.P. 1966. Kelso Dunes, Mojave Desert, California. *Geological Society of America, Bulletin*. 77: 1045-1074.
- Sharp, R.P. 1978. The Kelso Dune Complex. In Greeley, R., Womer, M.B., Papson, R.P. and Spudis, P.D. (eds). *Aeolian Features of Southern California: A Comparative Planetary Geology Guidebook*. Office of Planetary Geology, NASA. pp. 53-64.
- Sharp, R.P. 1979. Intradune Flats of the Algodones Chain, Imperial Valley, California. *Geological Society of America, Bulletin*. 90(1): 908-916.
- Sharp, R.P. 1980. Wind Driven Sand in the Coachella Valley, California; Further Data. *Geological Society of America, Bulletin*. 91: 724-730.
- Sharp, R.P. 1982. Kelso Dunes. In Cooper, J.D. (ed). *Geologic Excursions in the California Desert*. Geological Society of America. pp. 83-87.
- Sharp, R.P. and Malin, M.C. 1984. Surface geology from Viking landers on Mars: A second look. *Geological Society of America, Bulletin*. 95: 1398-1412.
- Sharp, R.P. and Saunders, R.S. 1978. Aeolian activity in western-most Coachella Valley and at Garnet Hill. In Greeley, R. et al (eds) *Aeolian Features of Southern California: A comparative planetary geology guidebook*. 9-22. Washington.
- Shata, A. 1971. The Geomorphology, Pedology and Hydrogeology of the Mediterranean Coastal Desert of United Arab Emirates. *Symposium on the Geology of Libya*. University of Libya, Faculty of Science. pp. 431-446.
- Shaw, W.B.K. 1936. An Expedition to the Southern Libyan Desert. *Geographical Journal*. 87: 193-221.
- Shepard, F.P. and Young, R. 1961. Distinguishing between Beach and Dune Sands. *Journal of Sedimentary Petrology*. 31: 196-214.
- Shlemon, R.J. 1978. Quaternary Soil - Geomorphic Relationships Southeastern Mojave Desert, California and Arizona. In Mahaney, W.C. (ed). *Quaternary Soils*. Norwich: Geo Abstracts. pp. 187-207.
- Shlemon, R.J. 1980. Quaternary Soil - Geomorphic Relationships Southeastern Mojave Desert, California and Arizona. In Fife, D.L. (ed). *Geology and Mineral Wealth of the California Desert*. South Coast Geological Society. pp. 388-402.
- Sidorenko, A.V. 1956. Differentiation Eolienne de la Matiere dans les Deserts. *Akademiia Nauk SSSR, Izvestiya, Seriya Geograficheskaii*. 3: 3-22.
- Sidwell, R. and Tanner, W.P. 1938. Quaternary Dune Building in Central Kansas (abs). *Geological Society of America, Bulletin*. 49: 139.
- Sidwell, R. and Tanner, W.F. 1939. Sand Grain Patterns of West Texas Dunes. *American Journal of Science*. 239: 181-187.
- Sigleo, W.R. and Colhoun, E.A. 1982. Terrestrial Dunes, Man and the Late Quaternary Environment in Southern Tasmania. *Palaeogeography, Palaeoclimatology, Palaeoecology*. 39(1-2): 87-121.
- Simonett, D.S. 1949. Sand Dunes near Castlereagh, New South Wales. *Australian Geographer*. 5: 3-10.
- Simonett, D.S. 1951. On the Grading of Dune Sands near Castlereagh, New South Wales. *Royal Society of New South Wales, Journal and Proceedings*. 84: 71-79.
- Simonett, D.S. 1960. Development and Grading of Dunes in Western Kansas. *Association of American Geographers, Annals*. 50: 216-241.
- Simons, F.S. 1956. A Note on Pur-Pur Dune, Viru Valley, Peru. *Journal of Geology*. 64: 517-521.
- Simons, F.S. and Ericksen, G.E. 1953. Some Desert Features of Northwest Central Peru. *Sociedad Geologica del Peru, Boletin*. 26: 229-246.
- Simons, P. 1973. Der Osten der Sahara, Die Nilwueste. In Schiffer, H (ed). *Die Sahara und ihre Randgebiete: Darstellung eines Natur-Grossraumes III: Band Regionalgeographie*. IFO Institut fuer Wirtschaft Meunchen Afrikan Studien. 62: 433-435.
- Simpson, E.L. 1983. *The Geometry and Structure of Interdune Deposits at White Sands National Monument, New Mexico*. University of Nebraska, MSc Thesis.
- Simpson, E.L. and Loope, D.B. 1985. Amalgamated Interdune Deposits, White Sands, New Mexico. *Journal of Sedimentary Petrology*. 55: 361-365.
- Singh, G., Joshi, R.D., Chopra, S.K. and Singh, A.B. 1974. Late Quaternary History of Vegetation and Climate of the Rajasthan Desert, India. *Philosophical Transactions B. Royal Society of London*. 267(889): 467-501.

- Singh, S. (ed) 1977(a). Geomorphological investigations of Rajasthan Desert. *Central Arid Zone Research Institute, Jodhpur, Monograph*. 7: 44 p.
- Singh, S. 1977(b). Sand dunes and paleoclimate in Jodhpur district, western Rajasthan (India). *Man and Environment*. 1: 7-15.
- Singh, S. 1985. Geomorphology and climatic change during Quaternary period in Rajasthan desert. In Merh, S.S. (ed) *1st National Seminar on Quaternary Environments*. Hindustan Press, New Delhi. 121-130.
- Singh, S., Ghose, B. and Vats, P.C. 1972. Genesis, Orientation and Distribution of Sand Dunes in Arid and Semi-Arid Regions of India. *Annual Report of the Central Arid Zone Research Institute, Jodhpur*. pp. 50-53.
- Singhvi, A.K., Sharma, Y.P. and Agrawal, D.P. 1982. Thermoluminescence Dating of Sand Dunes in Rajasthan, India. *Nature*. 295: 313-315.
- Sivakov, V.G. 1973. Quantative prediction of sand drift in the area of a highway on the basis of meteorological data. *Problems of Desert Development*. 3: 83-87.
- Skocek, V. and Saadallah, A.A. 1972. Grain Size Distribution, Carbonate Content and Heavy Minerals in Eolian Sands, Southern Desert, Iraq. *Sedimentary Geology*. 8: 29-46.
- Smalley, I.J. and Krinsley, D.H. 1979. Eolian Sedimentation on Earth and Mars: Some Comparisons. *Icarus*. 40: 276-288.
- Smiley, T.L. (ed). 1982. *The Geological Story of The World's Deserts*. Striae. 17.
- Smith, B.J. and Whalley, W.B. 1981. Late Quaternary Drift Deposits of North Central Nigeria Examined by Scanning Electron Microscopy. *Catena*. 8(3-4): 345-367.
- Smith, D.D. and Snead, R.E. 1961(a). Eolian Sand Beds near Karachi (abs). *Geological Society of America, Bulletin*. 68: 274.
- Smith, D.D. and Snead, R.E. 1961(b). Thick Eolian Sand Prism of Probable Middle to Late Pleistocene Age Near Karachi, West Pakistan (abs). *Geological Society of America, Special Papers*. 68: 274.
- Smith, D.G. 1980. Saskatchewan's Sand Dunes; a Touch of Araby. *Canadian Geographic*. 100(5): 24-29.
- Smith, D.M., Twidale, C.R. and Bourne, J.A. 1975. Kappakoola Dunes - Aeolian Landforms Induced by Man. *Australia Geographer*. 13(2): 90-96.
- Smith, H.T.U. 1938. Sand Dune Cycle in Western Kansas (abs). *Geological Society of America, Bulletin*. 50: 1934-1935.
- Smith, H.T.U. 1940(a). Geological Studies in Southwestern Kansas. *Kansas State Geological Survey, Bulletin*. 34: 153-168.
- Smith, H.T.U. 1940(b). Review of "A Tentative Classification of Sand Dunes" by F.A. Melton. *Journal of Geomorphology*. 3: 359-.
- Smith, H.T.U. 1942. Sand Dune Stratification (abs). *Geological Society of America, Bulletin*. 53: 1852.
- Smith, H.T.U. 1946. Sand Dunes. *New York Academy of Sciences, Transactions, Series* 2. 8: 197-199.
- Smith, H.T.U. 1949(a). Physical Effects of Pleistocene Climatic Changes on Non-Glaciaded Areas - Aeolian, Frost and Streams. *Geological Society of America, Bulletin*. 60: 1485-1516.
- Smith, H.T.U. 1949(b). Dune Forms in Western Nebraska (abs). *Geological Society of America, Bulletin*. 60: 1920.
- Smith, H.T.U. 1953. Classification of Sand Dunes (abs). *International Geological Congress, 19th, Algiers*. 7: 103.
- Smith, H.T.U. 1954. Eolian Sand on Desert Mountains (abs). *Geological Society of America, Bulletin*. 65: 1036-1037.
- Smith, H.T.U. 1956(a). Giant Composite Barchans of the Northern Peruvian Desert (abs). *Geological Society of America, Bulletin*. 67: 1735.
- Smith, H.T.U. 1956(b). Use of Aerial Photography for Interpretation of Dune History in Nebraska, U.S.A. *Congres International du Quaternaire, 4th, Rome-Pisa, Actes*. pp. 152-158.
- Smith, H.T.U. 1963. Eolian Geomorphology, Wind Direction and Climatic Change in North Africa. *United States Air Force, Cambridge Research Laboratories, Contract No. AF 19(628)-298*.
- Smith, H.T.U. 1964. Periglacial Eolian Phenomena in the United States. *International Congress on Quaternary, 6th, Warsaw, Report*. 4: 177-186.
- Smith, H.T.U. 1965. Dune Morphology and Chronology in Central and Western Nebraska. *Journal of Geology*. 73: 557-578.

- Smith, H.T.U.** 1967. *Past versus Present Wind Action in the Mojave Desert Region, California*. Air Force Cambridge Research Laboratories Report. AFCRL-67-0683. 25 p.
- Smith, H.T.U.** 1968(a). Nebraska Dunes Compared with those of North Africa and other Regions. In Schultz, C.B. and Frye, J.C. (eds). *Loess and Related Aeolian Deposits of the World*. Nebraska University Press. pp. 29-47.
- Smith, H.T.U.** 1968(b). Geologic and Geomorphic Aspects of Deserts. In Smith, H.T.U. (ed). *Desert Biology*. New York: Academic Press. pp. 51-100.
- Smith, H.T.U.** 1969. *Photo Interpretation Studies of Desert in Northern Africa*. Air Force Cambridge Research Laboratories Report. AFCRL-19-2486. 77 p.
- Smith, H.T.U.** 1972. Playas and Related Phenomena in the Sahara Region. In Reeves, C.C. (ed). *Playa Lake Symposium*. International Center for Arid and Semi-Arid Land Studies, Texas Technical University, Lubbock. Publication 4.
- Smith, J.D.** 1969. Geomorphology of a sand ridge. *Journal of Geology*. 77: 39-55.
- Smith, R.S.U.** 1970. *Migration and Wind Regime of Small Barchan Dunes within the Algodones Dune Chain, Southeastern Imperial County, California*. University of Arizona, MSc Thesis.
- Smith, R.S.U.** 1972. Barchan Dunes in a Seasonally Reversing Wind Regime, Southeastern Imperial County, California (abs). *Geological Society of America, Abstracts Program*. 4: 240-241.
- Smith, R.S.U.** 1975. Eolian Transport of Sand on Actively Accreting Slip Face of a Sand Dune Northwest of Winnemucca, Nevada (abs). *Geological Society of America, Abstracts Program*. 7: 377.
- Smith, R.S.U.** 1977. Barchan Dunes: Development, Persistence and Growth in a Multi-Directional Wind Regime, Southeastern Imperial County, California (abs). *Geological Society of America, Abstracts Program*. 9: 502.
- Smith, R.S.U.** 1978(a). Actual versus Inferred Wind Regime of Dunes: a Test in the Algodones Dune Chain, Southeastern California (abs). *Geological Society of America, Abstracts Program*. 10: 494-495.
- Smith, R.S.U.** 1978(b). The Algodones Dune Chain, Imperial County, California (abs). In Greeley, R. and Black, D. (eds). *Abstracts for the Planetary Geology Field Conference on Aeolian Processes*. NASA TM-78455: 43-44.
- Smith, R.S.U.** 1978(c). Field Trip to Dunes at Superstition Mountain. In Greeley, R., Womer, M.B., Papson, R.P and Spudis, P.D. (eds). *Aeolian Features of Southern California: a Comparative Planetary Geology Guidebook*. Office of Planetary Geology, NASA. pp. 65-72.
- Smith, R.S.U.** 1978(d). Guide to Selected Features of Aeolian Geomorphology in the Algodones Dune Chain, Imperial County, California. In Greeley, R., Womer, M.B., Papson, R.P and Spudis, P.D. (eds). *Aeolian Features of Southern California: a Comparative Planetary Geology Guidebook*. Office of Planetary Geology, NASA. pp. 73-98.
- Smith, R.S.U.** 1979. Wind Regime of Sand Dunes in Imperial Valley, California (abs). *NASA Technical Memorandum TM-80339*: 275-276.
- Smith, R.S.U.** 1980(a). Maintenance of Barchan Size in the Southern Algodones Dune Chain, Imperial County, California (abs). *Reports of Planetary Geology Program*. NASA TM-81776:253-254.
- Smith, R.S.U.** 1980(b). Granule-Armored Sand Dunes (abs). *Report of the Planetary Geology Program*, NASA TM-82385: 318.
- Smith, R.S.U.** 1980(c). "Zig-Zag" Dunes on Mars and Earth (abs). *International Geological Congress, Abstracts*. 26(3): 1252.
- Smith, R.S.U.** 1981. Seasonally Reversing Transverse Dunes in the California Desert; an Analogy for some Reversing Dunes on Mars. *NASA Technical Memorandum TM-84211*: 249-250.
- Smith, R.S.U.** 1982. Sand Dunes in the North American Deserts. In Bender, G.L. (ed). *Reference Handbook of the Deserts of North America*. Westport, Connecticut: Greenwood Press. pp. 481-526.
- Smith, R.S.U.** 1984. Eolian geomorphology of the Devils Playground, Kelso Dunes and Silurian Valley, California. In Dohrenwend, J.C. (ed). *Surficial Geology of the Eastern Mojave Desert, California*. Geological Society of America 1984 Annual Meeting Field trip 14 Guide Book. 162-173.

- Snead, R.E. 1966. *Physical Geography Reconnaissance, the Las Bela Coastal Plain, West Pakistan*. Louisiana State University, Coastal Studies Series 13. 118 p.
- Snead, R.E. and Frishman, S.A. 1968. Origin of Sands on the East Side of the Las Bela Valley, West Pakistan. *Geological Society of America, Bulletin*. 79(11): 1671-1676.
- Sneh, A. and Weissbrod, T. 1983. Size-Frequency Distribution on Longitudinal Dune Ripple Flank Sands Compared to that of Slipface Sands of Various Dune Types. *Sedimentology*. 30: 717-726.
- Soares de Carvalho, G. 1961. Geologia do Deserto de Mocamedes. *Memoir Junta Investigaciones de Ultramar* 2, Serie 26.
- Sokolow, N.A. 1894. *Die Dunen, Bildung, Entwicklung, und Innerer Bau*. (translated from Russian). Berlin: Springer.
- Solger, F. 1905. Über Fossile Dünenformen in Norddeutschen Flachlande. *Verhandlungen der Fünfzehnten Deutschen Geographentages zu Danzig*. Berlin.
- Solger, F. 1910(a). *Geologie der Dunen*. In *Dünenbuch*. Stuttgart: F. Enke.
- Solger, F. 1910(b). Studien über Nordostdeutsche Inlanddünen. *Forschungen zur Deutschen Landes- und Volkskunde*. 19(1): 1-89.
- Solger, F. 1920. Beobachtungen über Flugsandbildungen. *Deutsche Geologische Gesellschaft, Zeitschrift*. 72(6/7): 168-186.
- Sombroek, W.G. and Zonneveld, I.S. 1971. *Ancient Dune Fields and Fluvatile Deposits in the Rima - Sokoto Basin, Northwest Nigeria*. Netherlands Soil Survey Institut, Wageningen Soil Survey, Paper 5, 109 p.
- Sorensen, M. 1985. Estimation of some aeolian saltation transport parameters from transport rate profiles. In *Proceedings of International Workshop on the Physics of Blown Sand. Department of Theoretical Statistics. University of Aarhus*. 141-190.
- Sourdat, M. and Gense, C. 1970. Les Sables Roux de la Region de Tulear; Observations Stratigraphiques, Analyses par Diffractions aux Rayons-X. *Madagascar Semaine Geologique, Comptes Rendus*. 1968-69: 99-108.
- Southard, J.B., Walker, J.D. and Nozette, S.D. 1982. Wind Tunnel Modelling of Transport Threshold and Saltation on Venus (abs). *International Association of Sedimentologists, Eleventh International Congress*. Hamilton, Ontario. p. 63.
- Spreitzer, H. 1963. Die Zentrale Namib. *Mitteilungen Österreichischen Geographischen Gesellschaft*. 105: 340-356.
- Sprigg, R.C. 1965. The Nature and Origin of Modern Deserts. *Australian Museum Magazine*. 71: 207-211.
- Sprigg, R.C. 1979. Stranded and Submerged Sea-Beach Systems of Southeast South Australia and the Aeolian Desert Cycle. *Sedimentary Geology*. 22: 53-96.
- Sprigg, R.C. 1982. Alternating Wind Cycles of the Quaternary Era and their Influence on Aeolian Sedimentation in and around the Dune Deserts of Southeastern Australia. In Wasson, R.J. (ed). *Quaternary Dust Mantles of China, New Zealand and Australia*. Proceedings of Workshop, Publication of the Department of Biogeography and Geomorphology, Australian National University, Canberra. pp. 211-240.
- Squires, D.E. 1963. Carbon 14 Dating of the Fossil Dune Sequences Lord Howe Island. *Australian Journal of Science*. 25(9): 412-413.
- Squires, C.H. and Bradley, W. 1964. Notes on the Western Desert of Egypt. In Reilly, F.A. (ed). *Guidebook to the Geology and Archeology of Egypt*. Petroleum Exploration Society of Libya, Tunisia. pp. 99-105.
- Stannard, M.E. 1959. Wind Studies in Western New South Wales. *New South Wales Soil Conservation Service, Journal*. 15(1): 25-.
- Steidtmann, J.R. 1973. Ice and Snow in the Eolian Sand Dunes of Southwestern Wyoming. *Science*. 179: 796-798.
- Steidtmann, J.R. 1982. Structures in the Moist, Cold - Climate Sand Dunes of Southwestern Wyoming. *Geologic Society of America, Abstracts Program*. 192: 82-87.
- Steidtmann, J.R. and Haywood, H.C. 1973. Mechanism for Large Scale Deformation in Eolian Dunes (abs). *American Association of Petroleum Geologists, Bulletin*. 57(4): 806.
- Steidtmann, J.R. and Haywood, H.C. 1982. Settling Velocities of Quartz and Tourmaline in Aeolian Sandstone Strata. *Journal of Sedimentary Petrology*. 52: 395-401.
- Stelting, C.E. and Van de Werken, M.G. 1981. Clay dunes; Unique Eolian Deposits of the Semi-Arid Region of South Texas. In Stelting, C.E. et al (eds). *Modern Depositional Environments of Sands in South Texas; 1981 Convention Field Trip*. Geological Society of Texas. pp. 47-52.

- Stephens, C.G. and Crocker, R.L. 1946. Composition and Genesis of Lunettes. *Royal Society of South Australia, Transactions*. 70: 302-312.
- Sterckx, J. 1974. Aeolian Features in the Landscape of Barotseland. *Photo Interpretation*. 5: 6-7.
- Stone, R.O. 1967. A Desert Glossary. *Earth-Science Review*. 3: 211-268.
- Stone, R.G. and Summers, H.J. 1972. *Study of Subaqueous and Subaerial Sand Ripples*. Final report, Office of Naval Research, Contract N00014-67-A-0279-0002. Arlington, Virginia. 274 p.
- Story, R. 1982. *Notes on Parabolic Dunes, Winds and Vegetation in Northern Australia*. CSIRO Division of Water and Land Resources, Technical Paper 43. 33 p.
- Straw, A. 1963. Some Observations on the 'Cover Sands' of North Lincolnshire. *Lincolnshire Naturalists Union, Transactions*. 15(4): 260-269.
- Street, F.A. 1981. Tropical Paleoenvironments. *Progress in Physical Geography*. 5: 157-185.
- Striem, H.L. 1954. The Seifs on the Israel-Sinai Border and the Correlation of their Alignment. *Research Council of Israel, Bulletin*. 4(2): 195-198.
- Striem, P.L. and El Baz, F. 1982. Sand distribution on the Kharga Depression of Egypt: observation from Landsat images. In *First thematic conference on remote sensing of arid and semi arid lands*. Environmental Research Institute, Ann Arbor, Michigan. 765-774.
- Stuart, A. 1924. The Petrology of the Dune Sands of South Wales. *Geologists' Association, Proceedings*. 35: 316-331.
- Sumer, B.M. 1985. The mechanics of sediment suspension in turbulent boundary-layer flows. In *Proceedings of International Workshop on the Physics of Blown Sand*. Department of Theoretical Statistics. University of Aarhus. 191-224.
- Sundborg, A. 1955. Meteorological and Climatological Conditions for the Genesis of Aeolian Sediments. *Geografisk Annaler*. 37: 94-111.
- Suter, K. 1973. Die Mitte; der Westliche Teil. In Schiffers, H. (ed). *Die Saharan und ihre Randgebiete Darstellung eines Natur-Grossraumes; 3. Band Regionalgeographie*. IFO Institut für Wirtschaftsforschung Muenchen Afrika-Studien 62: 167-255.
- Suzuki, I. 1978. The Erg Occidental and Sand Dunes along the Wadi Saouri in the Northern Sahara (in Japanese). *Chikyu Kagaku - Earth Sciences* 32(2): 11.
- Swan, L.W. 1962. Eolian Zone. *Science*. 140: 77-79.
- Swinehart, J.B. 1972. Through a Dune Darkly, or Structure as Seen in the Nebraska Sand Hills (abs). *Proceedings of the Nebraska Academy of Sciences*. 82: 45.
- Swinehart, J.B. 1986. Internal structures and morphology of late Holocene linear dunes in the Nebraska Sand Hills. Abstract, *12th International Congress on Sedimentology*. Canberra. p 294.
- Snyder, F.S. 1985. A spatial and temporal analysis of the Sleeping Bear dunes complex, Michigan. *PhD dissertation, University of Pittsburg*. 221 p.
- Szczypek, T. 1976. Wydmy Okolic Zaniemyska. *Geographia, Studia et Dissertationes*. 1: 67-88.
- Szczypek, T. 1980. Piaski Eoliczne Okolic Siewierza. *Geographia, Studia et Dissertationes*. 3: 44-68.
- Tada, F. 1963. Geomorphological Study of Sand Dunes in the Kunshan Desert, Inner Mongolia (abs). *Societe Hellenique de Geographie, Bulletin*. 4: 172-173.
- Tada, F. 1975. A Historical Sketch of Sand Dune Studies in Japan Seen from the Standpoint of Earth Science. *Quaternary Research, Tokyo*. 14(4): 177-182.
- Tada, F., Naganuma, N., Ayuba, G. et al.. 1971. Research on the Relationship Between the Formation of Sand Dunes and Intercalated Humic Layers. *Quaternary Research*. (Japanese Association for Quaternary Research). 10(3): 124-133.
- Taira, A. and Scholle, P. 1979. Origin of Bimodal Sands in Some Modern Environments. *Journal of Sedimentary Petrology*. 49: 777-786.
- Talbot, M.R. 1980. Environmental responses to climatic change in the West African Sahel over the past 20,000 years. In: Williams, M.A.J. and Faure, H. (eds). *The Sahara and the Nile*. Balkema. pp. 37-62.
- Talbot, M.R. 1984. Late Pleistocene Rainfall and Dune Building in the Sahel. *Palaeoecology of Africa*. 16: 203-214.
- Talbot, M.R. 1985. Major Bounding Surfaces in Aeolian Sandstone - a Climatic Model. *Sedimentology*. 32: 257-266.
- Talbot, M.R. and Williams, M.A.J. 1978. Erosion of Fixed Dunes in the Sahel, Central Niger. *Earth-Surface Processes*. 3: 107-113.

- Talbot, M.R. and Williams, M.A.J. 1979. Cyclic Alluvial Fan Sedimentation on the Flanks of Fixed Dunes, Jan Jari, Central Niger. *Catena*. 6: 43-62.
- Tale, G.P. 1904. Sketch of the Baluchistan Desert and Part of Eastern Persia. *Geological Survey of India, Memoir* 21.
- Talmage, S.B. 1932. The Origin of the Gypsum Sands of the Tala Rossa River. *Geological Society of America, Bulletin*. 43: 185-186.
- Tamhane, V.A. 1952. Soils of the Rajputana and Sind Deserts. *National Institut of Sciences of India, Bulletin* 1.
- Tankard, A.J. and Rogers, J. 1978. Late Cenozoic paleoenvironments on the west coast of southern Africa. *Journal of Biogeography*. 5: 319-337.
- Teller, J.T. 1972. Aeolian Deposits of Clay Sand. *Journal of Sedimentary Petrology*. 42(3): 684-686.
- Teller, J.T. and Lancaster, N. 1986(a). Interdune lacustrine deposits in the Namib Sand Sea, Namibia. Abstract, 12th International Congress on Sedimentology. Canberra: 298.
- Teller, J.T. and Lancaster, N. 1986(b). Lacustrine sediments at Narabeb in the central Namib desert, Namibia. *Palaeogeography, Palaeoclimatology, Palaeoecology*. 56: 177-195.
- Theilen, B. 1978. Untersuchungen an Binnendünen Noerdlich des Steinhuder Meeres. (Examination of the Inland Dunes North of the Steinhude Lake). *Naturhistorische Gesellschaft zu Hannover Bericht*. 121: 7-28.
- Thesiger, W. 1949. A Further Journey across the Empty Quarter. *Geographical Journal*. 113: 21-46.
- Thomas, D.S.G. 1984. Ancient Ergs of the Former Arid Zones of Zimbabwe, Zambia and Angola. *Transactions of the Institute of British Geographers. New Series*. 9: 75-88.
- Thomas, D.S.G. 1986(a). Dune pattern statistics applied to the Kalahari dune desert, Southern Africa. *Zeitschrift fur Geomorphologie*. 30: 231-242.
- Thomas, D.S.G. 1986(b). The response diagram and ancient desert sands, a note. *Zeitschrift fur Geomorphologie*. 30: 363-370.
- Thomas, D.S.G. 1986(c). Arid geomorphology. *Progress in Physical Geography*. 10: 421-428.
- Thomas, D.S.G. and Goudie, A.S. 1984. Ancient Ergs of the Southern Hemisphere. In Vogel, J.C. (ed). *Late Cainozoic Paleoclimates of the Southern Hemisphere*. Proceedings of the International Symposium held by the South African Society for Quaternary Research. Rotterdam: A.A. Balkema. pp. 407-418.
- Thomas, P. 1981. North-South asymmetry of eolian features in Martian Polar regions: analysis based on crater-related wind markers. *Icarus*. 48: 76-90.
- Thomas, P. 1982. Present wind activity on Mars: relation to large latitudinally zoned sediment deposits. *Journal of Geophysical Research*. 87: 9999-10,008.
- Thompson, C.H. 1983. Development of Large Parabolic Dune Systems Along the Subtropical Coast of Eastern Australia. *Zeitschrift fur Geomorphologie, Supplement*. 45: 205-225.
- Thompson, D.G. 1929. The Mojave Desert Region, California; A Geographic, Geologic and Hydrologic Reconnaissance. *United States Geological Survey, Professional Paper* 578.
- Thompson, W.O. 1932. Original Structures of Beaches, Bars and Dunes. *Geological Society of America, Bulletin*. 48: 723-751.
- Thorp, J. and Smith, H.T.U. (eds). 1952. *Pleistocene Eolian Deposits of the United States, Alaska and Parts of Canada*. New York: Geological Society of America.
- Ting, W.S. 1958. Geomorphology of the Tarim Basin (abs). *American Association of Geographers, Annals*. 48: 293.
- Tobolski, K. 1969. Fazy Wydmowe w Swietle Badan Palynologicznych; Zagadnienie Ich Liczby i Charakterystyka Przebiegu. (Dune Forming Stages and Palynology; Problems Dealing with the Number of Stages and their History). In Galon, R. (ed). *Procesy i Formy Wydmowe w Polsce*. Polska Academia Nauk, Instytut Geografii, Prace Geograficzne, Warsaw. 75: 101-116.
- Tomioka, E., Amano, Y. and Sasaki, T. 1974. The Ancient Sand Dunes in the Plain to the Southeast of Lake Mashu, Hokkaido (in Japanese). *Quaternary Research, Tokyo*. 13(1): 9-19.
- Torquato, J.R. 1970. Origin and Evolution of the Mocamedes Desert, Angola. *Instituto de Investigacao Cientifica de Angola, Boletim*. 7(2): 29-38.

- Torquato, J.R.** 1972. Origin and Evolution of the Mocamedes Desert, Angola. In *African Geology; Quaternary Rocks and Geomorphology of Angola, Chad, Cote d'Ivoire, Nigeria and Sahara*. University of Ibadan, Department of Geography, Nigeria. pp. 449-459.
- Trainer, F.W.** 1961. Eolian Deposits of the Matanuska Valley Agricultural Area, Alaska. *United States Geological Survey, Bulletin*. 1121-C. 34 p.
- Trembaczowski, J.** 1948. Origin of Beach and Dune Sands in Pulawy. *Universitatis Mariae Curie-Sklodowska, Lublin, Annales, Serie B*. 3.
- Trembaczowski, J.** 1968. Barchany Polnocnego Brzegu Jeziora Char us Nuur w Kotlinie Wielkich Jezior, Zachodnia Mongolia. (Barchans of the Northern Coast of the Char us Nuur Basin in the Lake Area of Western Mongolia). *Universitas Mariae Curie-Sklodowska Annales, Sectio B*. 21: 87-110.
- Trembaczowski, J.** 1969. Charakterystyka i Morfologia Luznych Utworow Roznych Srodowisk Sedymetacyjnych Kotliny Wielkich Jezior w Zachodniej Mongolii. (Characteristics and Morphology of Sediments of Various Environments in the Great Lake Basin, Western Mongolia) (abs). In *Abstrakty Prac Habilitacyjnych i Doktorских*, 1968. Polska Akademia Nauk, Instytut Geografii, Dokumentacja Geograficzna. 6: 56.
- Trembaczowski, J.** 1976. Diaski wydmy obszaru Borig del els (NW Mongolia). (Sand dunes in the Borig del els, NW Mongolia) *Geographia Studia et Dissertationes*. 1: 21-52.
- Trenk, P.** 1910. In der Dunen der Namib. *Dt. Kolonialbil XXI*: 230-236.
- Trexler, D.T. and Melhorn, W.N.** 1986. Singing and booming sand dunes of California and Nevada. *California Geology*. 39: 147-152.
- Tricart, J.** 1953. Geomorphologie Dynamique de la Steppe Russe. *Revue de Geomorphologie Dynamique*. 4: 1-32.
- Tricart, J.** 1954. Une Forme de Relief Climatique, les Sebkhass. *Revue de Geomorphologie Dynamique*. 5(3): 97-191.
- Tricart, J.** 1955. Notes Geomorphologiques sur les Environs d' Atar (Mauritanie). *Institut Francais d'Afrique Noire, Bulletin, Serie A*. 17: 325-337.
- Tricart, J.** 1958. Analysis of "Differentiation Eolienne de la Matiere dans les Deserts" by A.V. Sidorenko. *Revue de Geomorphologie Dynamique*. 9(1/2): 29.
- Tricart, J.** 1959. Geomorphologie Dynamique de la Moyenne Vallee du Niger. *Annales de Geographie*. 68: 333-343.
- Tricart, J.** 1961. Le Modele du Quadulatero Ferifero, Sud de Belo Horizonte, Bresil. *Annales de Geographie*. 70: 255-272.
- Tricart, J.** 1965. *Reconnaissance Geomorphologie de la Moyenne Valle du Niger*. Institut Francais d'Afrique Noire, Memoire 72. 179 p.
- Tricart, J.** 1966. Un Chott dans le Desert Chilien: la Pampa del Tamarugal. *Revue de Geomorphologie Dynamique*. 16: 12-22.
- Tricart, J.** 1969. Actions Eoliennes dans la Pampa Deprimada, Republique d'Argentine. *Revue Geomorphologie Dynamique*. 19(4): 178-179.
- Tricart, J.** 1974. Existence de Perodes Seches au Quaternaire en Amazonie et dans les Regions Voisines. *Revue Geomorphologie Dynamique*. 23(4): 145-158.
- Tricart, J.** 1977. Apercus sur le Quaternaire Amazonien. In Tricart, J. and Miskowsky, J.C. (eds). *Recherches Francaises sur le Quaternaires hors de Frances*. Comite National Francais de l'International Quaternary Association; *Bulletin d'Association Francais pour l'Etude Quaternaire, Supplement*. 50(1): 265-271.
- Tricart, J. and Alfonsi, P.P.** 1981. Actions Eoliennes Recentes aux Abords du Delta de l'Orenoque. *Bulletin de l'Association de Geographes Francais*. 475-476: 75-82.
- Tricart, J. and Brochu, M.** 1955. Le Grand Erg Ancien du Trarza et du Cayor. *Revue de Geomorphologie Dynamique*. 4: 145-176.
- Tricart, J. and Cailleux, A.** 1962-63. *Le Modele des Region Seches*. Centre de Documentation Universitaire, Paris, 2 Vols. 129, 179 p.
- Tricart, J. and Mainguet, M.** 1965. Caracteristiques Granulometriques de Quelques Sables Eoliens du Desert Peruvien; Aspects de la Dynamique des Barkanes. *Revue de Geomorphologie Dynamique*. 15: 110-121.
- Tricart, J., Cardoso da Silva, T. and Brochu, M.** 1960. Etude Geomorphologique du Projet d'Amenagement du Lac Faguibine (Republique du Mali). *Sols Africains*. 5(3): 207-289.

- Trichet, J. 1963. Description d'une Forme d'Accumulation de Gypse par Voie Eolienne dans le Sud Tunisien. *Societe Geologique de France, Bulletin*. 5: 617-621.
- Trichet, J. 1968. Etude des Facies d'une Dune Gypseuse, Sud d'Oran, Algerie. *Societe Geologique Francais, Bulletin, Serie 7*. 9(6): 865-875.
- Trikanos, J. 1928. Windrippen. *Petermanns Geographische Mitteilungen*. 74(9/10): 266-271.
- Trimble, D.E. and Carr, W.J. 1976. Geology of the Rockland and Arban Quadrangles, Power County, Idaho. *United States Geological Survey, Bulletin* 1399. 115 p.
- Trushkovskii, A.A. 1970. Soil Formations in Eolian Sands in the Caspian Lowland Between the Volga and Ural Rivers. In Ivanova, Ye.N. (ed). *Genesis and Classification of Semi-Desert Soils*. Israel Program, Scientific Translation, Jerusalem. pp. 181-241.
- Tseo, G. 1986. Longitudinal dunes: their genesis and ordering. *PhD thesis, University of Adelaide*.
- Tsoar, H. 1970. *The Dunes of El-Arish, Northern Sinai*. (in Hebrew). Hebrew University, Jerusalem. MSc Thesis.
- Tsoar, H. 1974. Desert Dune Morphology and Dynamics at Al Arish, Northern Sinai. *Zeitschrift fur Geomorphologie, Supplement*. 20: 41-61.
- Tsoar, H. 1976. Characterisation of Sand Dune Environments by Surface Grain Size, Mineralogy and Texture. In Amiran, D.M.K. and Ben Arieh, Y. (eds). *Geography in Israel*. Jerusalem: Israel National Committee for the Israel Geographical Union. pp. 327-343.
- Tsoar, H. 1978(a). Dynamics of Longitudinal Dunes (in Hebrew). Hebrew University, Jerusalem, PhD Thesis.
- Tsoar, H. 1978(b). *The Dynamics of Longitudinal Dunes*. Final Technical Report, European Research Office, U.S. Army. 171 p.
- Tsoar, H. 1982(a). Simulation of Echo and Climbing Dunes in the Wind Tunnel (abs). *International Association of Sedimentologists, Eleventh International Congress*. Hamilton, Ontario.
- Tsoar, H. 1982(b). Internal Structure and Surface Geometry of Longitudinal (Seif) Dunes. *Journal of Sedimentary Petrology*. 52: 823-831.
- Tsoar, H. 1983(a). Dynamic Processes Acting on a Longitudinal (Seif) Dune. *Sedimentology*. 30: 567-578.
- Tsoar, H. 1983(b). Wind Tunnel Modelling of Echo and Climbing Dunes. In Brookfield, M.E. and Ahlbrandt, T.S. (eds). *Eolian Sediments and Processes*. Developments in Sedimentology 38. Amsterdam: Elsevier. pp. 247-260.
- Tsoar, H. 1984. The Formation of Seif Dunes from Barchans - a Discussion. *Zeitschrift fur Geomorphologie*. 28(3): 99-103.
- Tsoar, H. 1985. Profile Analysis of Sand Dunes and their Steady State Significance. *Geografiska Annaler*. 67A: 47-59.
- Tsoar, H. 1986(a). Two dimensional analysis of dune profiles and the effect of grain size on sand dune morphology. In: El Baz, F. and Hassan, M.H.A. (eds). *Physics of Desertification*. Martinus Nijhoff. pp.94-108.
- Tsoar, H. 1986(b). The advance mechanism of longitudinal dunes. In: El Baz, F. and Hassan, M.H.A. (eds). *Physics of Desertification*. Martinus Nijhoff. pp. 241-250.
- Tsoar, H. and Greeley, R. 1980. Dunes Related to Obstacles on Earth and Mars: Observation and Simulation. *Reports of Planetary Geology Program*. NASA TM-81776: 369-370.
- Tsoar, H. and Moller, J.T. 1986. The role of vegetation in the formation of linear sand dunes. In: Nickling, W.G. (ed). *Aeolian Geomorphology. Proceedings of the 17th Annual Binghamton Geomorphology Symposium*. Allen and Unwin. pp. 75-96.
- Tsoar, H. and Yaalon, D.H. 1983. Deflection of Sand Movement on a Sinuous Longitudinal (Seif) Dune: Use of Fluorescent Dye as Tracer. *Sedimentary Geology*. 36: 25-39.
- Tsoar, M., Greeley, R. and Peterfreund, A.R. 1979. Mars: the North Polar Sand Sea and Related Wind Patterns. *Journal of Geophysical Research*. 84: 8167-8180.
- Tsoar, H., Rasmussen, K.R., Sorensen, M. and Willetts, B.B. 1985. Laboratory studies of flow over dunes. In *Proceedings of International Workshop on the Physics of Blown Sand*. Department of Theoretical Statistics. University of Aarhus. 327-350.
- Tsuriell, D.E. 1974. Sand Dune Stabilization in Israel. *International Journal of Biometeorology*. 18(2): 89-93.
- Tsychiya, Y. 1970. Successive Saltation of a Sand Grain by Wind. *Proceedings, 12th Conference on Coastal Engineering*. Vol 1. pp. 1417-1427.

- Tucker, R.W. and Vacher, H.L. 1980. Effectiveness of Discriminating Beach, Dune and River Sands by Moments and the Cumulative Weight Percentages. *Journal of Sedimentary Petrology*. 50(1): 165-172.
- Twenhof, W.H. et al. 1945. The Rounding of Sand Grains. *Journal of Sedimentary Petrology*. 15(2): 59-71.
- Twidale, C.R. 1972(a). Evolution of Sand Dunes in the Simpson Desert, Central Australia. *Transactions of the Institute of British Geographers*. 56: 77-110.
- Twidale, C.R. 1972(b). Landform Development in the Lake Eyre Region, Australia. *Geographical Review*. 62(1).
- Twidale, C.R. 1980. The Simpson Desert, Central Australia. *South African Geographical Journal*. 62(1): 3-17.
- Twidale, C.R. 1981(a). Age and Origin of Longitudinal Dunes in the Simpson and Other Sand Ridge Deserts. *Die Erde*. 112: 231-247.
- Twidale, C.R. 1981(b). Landforms of North Eastern South Australia. In Foale, M.R. (ed). *The Far North East of South Australia*. Nature Conservation Society of South Australia, Adelaide. pp. 7-14.
- Twidale, C.R. and Wopfner, H. 1981. Aeolian Landforms of Central Australia; a Discussion. *Zeitschrift für Geomorphologie*. 25(3): 353-358.
- Tyler, T.F. 1979. Laboratory Studies of Sand Patterns Resulting from Current Movements. In McKee, E.D. (ed). *A Study of Global Sand Seas*. United States Geological Survey, Professional Paper 1052: 171-186.
- Udden, J.A. 1894. Erosion, Transport and Sedimentation by the Atmosphere. *Journal of Geology*. 2: 318-331.
- Udden, J.A. 1898. The Mechanical Composition of Wind Deposits. *Augustana Library, Publication 1*. 69 p.
- Urbaniak, U. 1962. The Structure of a Dune in Goren Duzy (in Polish). *Przegląd Geograficzny*. 34: 749-758.
- Urbaniak, U. 1966. Mineral Composition of Dune Sands from the Plock Basin (in Polish). *Przegląd Geograficzny*. 38(3): 435-453.
- Urbaniak, U. 1967. Wydm Kotliny Plockiej. (Dunes of the Plock Basin). *Prace Geograficzne, Instytut Geografii, Polska Akademia Nauk*. 61.
- Urbaniak, U. 1969(a). Azburzenia w Warstwawanej Strukturze Wydm Kotliny Plockiej. (Disturbances in the Stratification of Dunes in the Plock Basin). In Galon, R. (ed). *Procesy i Formy Wydmowe w Polsce*. Polska Akademia Nauk, Instytut Geografii, Prace Geograficzne, Warsaw. 75: 209-237.
- Urbaniak, U. 1969(b). Problematyka Wydmowa w Polsce. (Problems of Dunes in Poland). In Galon, R. (ed). *Procesy i Formy Wydmowe w Polsce*. Polska Akademia Nauk, Instytut Geografii, Prace Geograficzne, Warsaw. 75: 355-368.
- Urbaniak-Biernacka, U. 1973(a). Pseudomorfozy Organogeniczne w Wydmach. (Organogenic Pseudomorphs in Dunes). *Przegląd Geograficzny*. 45(3): 535-555.
- Urbaniak-Biernacka, U. 1973(b). Budowa i Wiek Wydm w Gorkach of Puszczy Kampinoskiej. (Structure and Age of Dune at Gorki in Kampinos Forest). *Przegląd Geograficzny*. 45(4): 75-764.
- Urbaniak-Biernacka, U. 1975. Wydm Okolic Swietovsic na Wyspie Wolin. (The Dunes in the Swietousc Region on Wolin Island). *Acta Universitatis Nicolai Copernici Geografia*. 11: 57-86.
- Urbaniak-Biernacka, U. 1976(a). Badonia Wydm Srodkowej Polski z Wykorzystaniem Metod Statystycznych. (Investigation of Dunes in Central Poland with Use of Statistical Methods). *Prace Naukowe Politechniki Warszawskiej Geodizja*. 17: 204 p.
- Urbaniak-Biernacka, U. 1976(b). Sklad Granulometryczny Piaskow Wydmowych w Kotlinie Blockiej. (Grain Size Distributions and Sand Abrasion of Inland Dunes from the Plock Basin). *Prace i Studia, Instytutu Geograficznego. Uniwersytetu Warszawskiego* 17, Geografia Fizyczna. 6: 83-125.
- Urvoy, Y. 1933(a). Les Formes Dunaires a l'Ouest du Tchad. *Annales de Geographie*. 42: 506-515.
- Urvoy, Y. 1933(b). Modele Dunaire entre Zinder et le Tchad. *Association de Geographes Francais, Bulletin*. 74(69): 79-82.
- Urvoy, Y. 1936. Structure et Modele du Soudan Francais. *Annales de Geographie*. 45: 19-49.

- Vail, J.R. 1982. Geology of the Central Sudan. In Williams, M.A.J. and Adamson, D.A. (eds). *A Land Between Two Niles; Quaternary Geology and Biology of Central Sudan*. Rotterdam: A.A. Balkema. pp. 51-63.
- Vandenbergh, J. and Krook, L. 1981. Stratigraphy and Genesis of Pleistocene Deposits at Alphen, Southern Netherlands. *Geologie en Mijnbouw*. 60: 417-426.
- Van der Merwe, C.R. 1954(a). Kalahari and Sahara Sandy Soils. *International Congress of Soil Science, 5th, Leopoldville, Actes et Comptes Rendus*. 4: 117-123.
- Van der Merwe, C.R. 1954(b). The Soils of the Desert and Arid Regions of South Africa. *Inter-African Soil Conference, 2nd, Leopoldville, Proceedings*. 2: 827-834.
- Van Houten, F.B. 1973. Origin of Red Beds; A Review 1961-1972. *Annual Review of Earth and Planetary Science*. 1: 39-61.
- Van Rooyen, T.H. and Burger, R. du T. 1974. Dispersal and Sedimentary Characteristics of Sandy Soil Parent Materials in Semi-Arid South Africa. *Zeitschrift fur Geomorphologie, Supplement*. 20: 69-90.
- Van Rooyen, T.H. and Verster, E. 1983. Granulometric Properties of the Roaring Sands in the South-Eastern Kalahari. *Journal of Arid Environments*. 6(3): 215-222.
- Van Zinderen Bakker, E.M. 1975. The origin and paleoenvironment of the Namib Desert biome. *Journal of Biogeography*. 2: 65-74.
- Van Zinderen Bakker, E.M. 1980. Comparison of Late - Quaternary Climatic Evolution in the Sahara and Namib-Kalahari Region. *Palaeoecology of Africa*. 12: 381-394.
- Van Zinderen Bakker, E.M. 1984. Aridity along the Namibian Coast. *Palaeoecology of Africa*. 16: 149-162.
- Vats, P.C., Singh, S., Ghose, B. and Kaith, D.S. 1976. Types, Orientation and Distribution of Sand Dunes in Bikaner District. *Geographical Observer*. 12: 69-75.
- Vaychis, M.V. 1973. Surficially Podzolized Sandy Soils on Land Dunes in East Lithuania (in Russian). *Pochvovedeniye*. 9: 3-10.
- Veblen, D.R., Krinsley, D.H. and Thompson, M. 1981. Transmission Electron Microscope Study of Quartz Microstructures Produced by Aeolian Bombardment. *Sedimentology*. 28: 853-858.
- Verboom, W.C. 1974. The Barotse Loose Sand of the Western Province, Zambia. *Zambian Geographical Association, Magazine*. 27: 13-17.
- Verlaque, C. 1958. Les Dunes d'In Salah. *Institut de Recherches Sahariennes, Travaux*. 17: 12-58.
- Verstappen, H.Th. 1968. On the Origin of Longitudinal (Seif) Dunes. *Zeitschrift fur Geomorphologie*. 12: 200-220.
- Verstappen, H.Th. 1970. Aeolian Geomorphology of the Thar Desert and Palaeoclimates. *Zeitschrift fur Geomorphologie, Supplement*. 10:
- Verstappen, H.Th. 1972(a). Orbital Photographs and Climatic Geomorphology in Chad. *Palaeoecology of Africa*. 6: 102.
- Verstappen, H.Th. 1972(b). On Dune Types, Families and Sequences in Areas of Unidirectional Winds. *Hans-Poser-Festschriften Gottinger Geographische Abhandlungen*. 60: 341-353.
- Verstappen, H.Th. and Van Zuidam, R.A. 1970. Orbital Photography and the Geosciences; a Geomorphological Example from the Central Sahara. *Geoforum*. 2: 33-47.
- Veyisov, S. 1966. The Mechanics of the Formation of Barchan Chains, from Experimental Material (in Russian). *Akademiia Nauk SSR, Izvestiya, Seriya Geograficheskaya*. 3: 66-70.
- Veyisov, S. 1968. Metodika Izucheniya Pervichnykh Stadiy Eolovogo Rel'yefa Podvizhnykh Peskov. (Methods for Studying the Primary Stages of Eolian Relief in Shifting Sands). *Akademiya Nauk SSR, Izvestiya Seriya Geograficheskaya*. 3: 67-76.
- Veyisov, S. 1971. Osobennosti Dinamiki Uvlazhneniya s Poverkhnosti Barkhannykh Tsepey. (Dynamics of Barchan Chains Having Moistened Surfaces). *Geomorfologiya*. 1: 55-61.
- Veyisov, S. and Landik, A.P. 1974. Prodolzhitel'nost Peremeshcheniya Peschinok v Barkhannom Rel'yefe. (The Duration of the Movement of Sand Grains in Barchan Relief). *Akademiya Nauk SSR, Izvestiya Seriya Geograficheskaya*. 5: 85-87.
- Vincent, P.J. 1984. Particle Size Variation over a Transverse Dune in the Nafid as Sirr, Central Saudi Arabia. *Journal of Arid Environments*. 7: 329-336.
- Vincent, P.J. 1985. Some Saudi Arabian dune sands: a note on the use of the response diagram. *Zeitschrift fur Geomorphologie*. 29: 117-122.

- Vincent-Cuaz, L. 1958. Les Barkhanes de Mauritanie ont-elles toujours Existé? *Bulletin de Liaison Sahariennes*. 10(30): 141-147.
- Visher, G.S. 1969. Grain Size Distributions and Depositional Processes. *Journal of Sedimentary Petrology*. 39: 1074-1106.
- Vossmerbaumer, H. 1974. Grain Size Data of Some Aeolian Sands: Inland Dunes in Franconia, Southern Germany, Algeria and Iran, A Comparison. *Geologiska Foereningen i Stockholm*. 96:2b1 - 74.
- Waite, M.B.C. 1969. *Desert Dunes of the Kermut Sand Hills, Winkler County, Texas*. University of Texas, Msc Thesis, 90 p.
- Walker, A.S. 1982. Deserts of China. *American Scientist*. 70: 366-376.
- Walker, H.J. 1967. Riverbank Dunes in the Colville Delta, Alaska. *Louisiana State University Coastal Studies Institute, Coastal Studies Bulletin*. 1: 7-14.
- Walker, H.J. and Matsukura, Y. 1979. Barchans and Barchan-Like Dunes as Developed in Two Contrasting Areas with Restricted Source Regions. *Annual Report Institute for Geosciences, University Tsukuba*. 5: 43-46.
- Walker, J.D. and Southard, J.B. 1982. Experimental Study of Wind Ripples (abs). *International Association of Sedimentologists, 11th International Congress*. Hamilton, Ontario. p. 65.
- Walker, N.S.W. 1982. Aeolian Landforms in the Cobar-Tilpa Area. In Wasson, R.J. (ed). *Quaternary Dust Mantles of China, New Zealand and Australia*. Proceedings of Workshop, Publication of the Department of Biogeography and Geomorphology, Australian National University, Canberra. pp. 197-199.
- Walker, R.G. and Middleton, G.V. 1977. Facies Models 9: Eolian Sands. *Geoscience Canada*. 4: 182-190.
- Walker, T.R. 1967. Formation of Red Beds in Modern and Ancient Deserts. *Geological Society of America, Bulletin*. 78: 353-363.
- Walker, T.R. 1979. Red Colour in Dune Sand. in McKee, E.D. (ed). *A Study of Global Sand Seas*. United States Geological Survey, Professional Paper 1052: 61-82.
- Walmsley, J.L. and Howard, A.D. 1985. Application of a boundary layer model to flow over an eolian dune. *Journal of Geophysical Research*. 90: 10631-10640.
- Walther, J. 1951. L'Influence des Facteurs Physiques sur la Morphologie des Sables Eoliens et des Dunes. *Revue de Geomorphologie Dynamique*. 2(6): 242-.
- Walton, K. 1969. *The Arid Zones*. London: Hutchinson Press. 175 p.
- Wang An-Chi. 1960. Quaternary Research in China. (in Russian). *Akademiia Nauk SSR, Izvestiya, Seriya Geograficheskaya*. 2: 123-126.
- Ward, A.W. and Doyle, K.B. 1983. Speculation on Martian North Polar Wind Circulation and the Resultant Orientations of Polar Sand Dunes. *Icarus*. 55: 420-431.
- Ward, A.W., Doyle, K.B., Helm, P.J., Weisman, M.K. and Witbeck, N.E. 1985. Global Map of Eolian Features on Mars. *Journal of Geophysical Research*. 90(B2): 2038-2056.
- Ward, J.D. 1984. *Aspects of the Cenozoic Geology in the Kuiseb Valley, Central Namib Desert*. PhD Thesis, University of Natal. 310 p.
- Ward, J.D. and Von Brunn, V. 1985. Sand Dynamics along the Kuiseb River. In Huntley, B.J. (ed) *The Kuiseb Environment: the Development of a Monitoring Baseline*. South African National Scientific Programmes Report No. 106: 51-72.
- Ward, J.D., Seely, M.K. and Lancaster, N. 1983. On the aridity of the Namib. *South African Journal of Science*. 79: 175-183.
- Ward, W.T. 1977. Sand Movement on Fraser Island. *University of Queensland, Occasional Paper in Anthropology*. 8: 113-126.
- Warner, D.M. and El-Baz, F. 1979. Monte Desert of San Juan, Argentina as Photographed by ASTP. In El-Baz, F et al (eds). *Apollo-Soyez Test Project, Summary Science Report, Vol 2. Earth Observations and Photography*. NASA Special Publication SP-412: 301-318.
- Warren, A. 1964. The Dunes of Kordofan. *Hunting Group Review*. 3: 5-9.
- Warren, A. 1966. *The Qoz Region of Kordofan*. Cambridge University. PhD Thesis.
- Warren, A. 1968. Dune Volume and Trend Measurements in the Nebraska Sand Hills (abs). *Nebraska Academy of Sciences, Proceedings*. 78: 23.
- Warren, A. 1969. A Bibliography of Desert Dunes and Associated Phenomena. In McGinnies W.G. and Goldman, B.J. (eds). *Arid Lands in Perspective*. Tucson: University of Arizona Press. pp. 75-99.
- Warren, A. 1970. Dune Trends and their Implication in Central Sudan. *Zeitschrift fur Geomorphologie, Supplement*. 10: 154-180.
- Warren, A. 1971. Dunes in the Tenere Desert. *Geographical Journal*. 137: 458-461.

- Warren, A. 1972. Observations on Dunes and Bimodal Sands in the Tenere Desert. *Sedimentology*. 19: 37-44.
- Warren, A. 1974. Some Aspects of Grain Size Relationships in Dunes. *International Symposium on Geomorphic Processes in Arid Environments*. Jerusalem: Univeroff Manusler. 6 p.
- Warren, A. 1976(a). Dune Trends and the Ekman Spiral. *Nature*. 259: 653-654.
- Warren, A. 1976(b). Morphology and Sediment of the Nebraska Sand Hills in Relation to Pleistocene Winds and the Development of Aeolian Bedforms. *Journal of Geology*. 84: 685-700.
- Warren, A. 1979. Aeolian Processes. In Embleton, C. and Thornes, J. (eds). *Process in Geomorphology*. London: E. Arnold. pp. 325-351.
- Warren, A. 1983. Progress Report: Arid Geomorphology. *Progress in Physical Geography*. 7(3): 397-403.
- Warren, A. 1984. Progress Report: Arid Geomorphology. *Progress in Physical Geography*. 8(3): 399-420.
- Warren, A. and Knott, P. 1983. Desert Dunes: a Short Review of the Needs in Desert Dune Research and a Recent Study of Micro-Meteorological Dune-Initiation Mechanisms. In Brookfield, M.E. and Ahlbrandt, T.S. (eds). *Eolian Sediments and Processes*. Developments in Sedimentology 38. Amsterdam: Elsevier. pp. 343-352.
- Wasson, R.J. 1976. Holocene Aeolian Landforms in the Belaraban Area, South West of Cobar, New South Wales. *Journal and Proceedings of the Royal Society of New South Wales*. 109: 91-101.
- Wasson, R.J. 1983(a). The Cainozoic History of the Strzelecki and Simpson Dunefields (Australia) and the Origin of the Desert Dunes. *Zeitschrift fur Geomorphologie, Supplement*. 45: 85-115.
- Wasson, R.J. 1983(b). Dune Sediment Type, Sand Colour, Sediment Provenance and Hydrology in the Strzelecki - Simpson Dunefield, Australia. In Brookfield, M.E. and Ahlbrandt, T.S. (eds). *Eolian Sediments and Processes*. Developments in Sedimentology 38. Amsterdam: Elsevier. pp. 165-196.
- Wasson, R.J. 1984. Late Quaternary Palaeoenvironments in the Desert Dunefields of Australia. In Vogel, J.C. (ed). *Late Cainozoic Palaeoclimates of the Southern Hemisphere*. Proceedings of the International Symposium held by the South African Society for Quaternary Research. Rotterdam: A.A. Balkema. pp. 419-432.
- Wasson, R.J. 1986. Climate, rates and timing of Quaternary continental dune accumulation in Australia. Abstract, *12th International Congress on Sedimentology*. Canberra. p 322.
- Wasson, R.J. and Callen, R.A. 1984. The origin and history of the Australian dunefields. Abstract In Cogger, H.S. (ed) *Arid Australia*. Australian Museum, Sydney. p 79.
- Wasson, R.J. and Hyde, R. 1982. A Test of Granulometric Control of Desert Dune Geometry (abs). *Abstracts, Eleventh International Congress on Sedimentology*. p. 66.
- Wasson, R.J. and Hyde, R. 1983(a). A Test of Granulometric Control of Desert Dune Geometry. *Earth Surface Processes and Landforms*. 8: 301-312.
- Wasson, R.J. and Hyde, R. 1983(b). Factors determining dune types. *Nature*. 304: 337-339.
- Wasson, R.J. and Hyde, R.J. 1986. Models of dune and dunefield accumulation. Abstract, *12th International Congress on Sedimentology*. Canberra. p 323.
- Wasson, R.J. and Nanninga, P.M. 1986. Estimating wind transport of sand on vegetated surfaces. *Earth Surface Processes and Landforms*. 11: 505-514.
- Wasson, R.J., Rajaguru, S.N., Misara, V.N., Agrawal D.P., Dhir, R.P., Singhvi, A.K. and Kameswara, K. 1983. Geomorphology, Late Quaternary Stratigraphy and Paleoclimatology of the Thar Dunefield. *Zeitschrift fur Geomorphologie, Supplement*. 45: 117-151.
- Watson, A. 1985. The control of wind blown sand and moving dunes: a review of the methods of sand control in deserts with observations from Saudi Arabia. *Quarterly Journal of Engineering Geology*. 18: 237-252.
- Watson, A. 1986. Grain size variations on a longitudinal dune and a barchan dune. *Sedimentary Geology*. 46: 49-66.
- Watson, I. and Lemon, R.R. 1985. Geomorphology of a coastal desert: the Namib, South West Africa/Namibia. *Journal of Coastal Research*. 1: 329-342.

- Wayland, E.J. 1953. More about the Kalahari. *Geographical Journal*. 119(1): 49-56.
- Webb, B.P. and Wopfner, H. 1961. Plio-Pleistocene Dunes North-West of Lake Torrens, South Australia, and their Influence on the Erosional Pattern. *Australian Journal of Science*. 23: 379-381.
- Wegeman, C.H. 1939. Great Sand Dunes of Colorado. *Mines Magazine*. 29: 445-448.
- Weinberger, R.K. and Adlon, G.L. 1971. Particle Dislodgement and Entrainment by a Low Density Airstream Flowing Over a Surface. NASA CR-111924.
- Weinecke, F. and Rust, U. 1973. Variations du Niveau Marin et Phases Climatiques du le Desert du Namib Centrale, Afrique du Sud-Ouest. *Finisterra*. 8: 48-65.
- Weir, J.E. 1962. Large Ripple Marks Caused by the Wind near Coyote Lake (Dry), California (abs). *Geological Society of America, Special Paper*. 73: 72.
- Wells, G.L. 1982(a). Dunefield Dynamics of Parabolic Dunes (abs). *International Association of Sedimentologists, Eleventh International Congress*. Hamilton, Ontario. p. 172.
- Wells, G.L. 1982(b). Dynamic Considerations for the Age of the Nebraska Sand Hills (abs). *International Association of Sedimentologists, Eleventh International Congress*. Hamilton, Ontario. p. 143.
- Wells, G.L. 19 . Late glacial circulation over central North America revealed by aeolian features. In Street-Perrott, A. et al (eds) *Variations in the Global Water Budget*. 317-330. D. Riedel.
- Wells, S.G., Gullard, T.F. and Smith, L.N. 1982. Origin and Evolution of Deserts in the Basin and Range of the Colorado Plateau Provinces of Western North America. *Striae*. 17: 101-111.
- Werner, B.T., Haff, P.K., Livi, R.P. and Anderson, R.S. 1986. Measurement of eolian sand ripple cross sectional shapes. *Geology*. 14: 743-745.
- Whincup, S. 1944. Superficial Sand Deposits between Brighton and Franciston, Victoria. *Royal Society of Victoria, Proceedings*. 52: 315-332.
- White, B.R. 1975. *Saltation in Terrestrial and Martian Atmospheres*. Iowa State University, PhD Thesis, 200 p.
- White, B.R. 1979. Soil Transport by Winds on Mars. *Journal of Geophysical Research*. 84(B8): 4643-4651.
- White, B.R. 1985. The dynamics of particle motion in saltation. In *Proceedings of International Workshop on the Physics of Blown Sand. Department of Theoretical Statistics. University of Aarhus*. 101-140.
- White, B.R. 1986. Particle transport by atmospheric winds on Venus: an experimental wind tunnel study. In: Nickling, W.G. (ed). *Aeolian Geomorphology. Proceedings of the 17th Annual Binghamton Geomorphology Symposium*. Allen and Unwin, pp. 57-74.
- White, B.R., Greeley, R., Iversen, J. and Pollack, J. 1976. Estimated Grain Saltation in a Martian Atmosphere. *Journal of Geophysical Research*. 81: 5643-5650.
- White, L.P. 1971. The Ancient Erg of Hausaland in South-Western Niger. *Geographical Journal*. 137: 69-73.
- Whitefield, C.J. 1937. Sand Dunes in the Great Plains. *Soil Conservation*. 2(9): 208-209.
- Whitney, J.W. 1980. Geologic Evidence for Late Quaternary Climatic Change in Western Saudi Arabia (abs). *Symposium on the Environmental Evidence for Climatic Change in the Eastern Mediterranean and the Near East, during the Last 20 000 Years*. Groningen, The Netherlands. p. 24/1.
- Whitney, J.W. 1981. Saudi Arabia's Stable Sand Seas (abs). *Geological Society of America, Abstracts Program*. 13(7): 580.
- Whitney, J.W. 1983. *Erosional History and Surficial Geology of Western Saudi Arabia*. United States Geological Survey Technical Record. TR-04-1, 90 p.
- Whitney, J.W., Faulkender, D.J. and Rubin, M. 1983. *The Environmental History and Present Condition of the Northern Sand Seas of Saudi Arabia*. United States Geological Survey Open File Report. OF-03-95, 39 p.
- Wiegand, P.J. 1977. *Dune Morphology and Sedimentology at the Great Sand Dunes National Monument*. Colorado State University, Fort Collins. MSc Thesis, 165 p.
- Wilckens, O. 1926. Die Oberrheinischen Flugsande. *Geologische Rundschau, Sonderband*. 17a: 555-597.
- Wilcoxon, J.A. 1962. Relationship between Sand Ripples and Wind Velocity in a Dune Area. *Compass*. 39: 65-76.
- Wilde, S.L. 1982. *Morphological Evolution of the Sutton Creek Dune Field*. University of Oregon. MA Thesis, 92 p.

- Wildvang, D. 1936. Über Flugsande der Ostriessen Geest. *Naturwissenschaftlicher Verein, Bremen, Abhandlungen*. 29(3-4): 292-307.
- Willetts, B.B. 1983. Transportation by Wind of Granular Materials of Different Grain Shapes and Densities. *Sedimentology*. 30: 669-680.
- Willetts, B.B. and Rice, M.A. 1985(a). Inter-saltation collisions. In *Proceedings of International Workshop on the Physics of Blown Sand*. Department of Theoretical Statistics. University of Aarhus. 83-100.
- Willetts, B.B. and Rice, M.A. 1985(b). Wind tunnel tracer experiments using dyed sand. In *Proceedings of International Workshop on the Physics of Blown Sand*. Department of Theoretical Statistics. University of Aarhus. 225-242.
- Willetts, B.B. and Rice, M.A. 1986. Collision in aeolian transport: the saltation/creep link. In: Nickling, W.G. (ed). *Aeolian Geomorphology. Proceedings of the 17th Annual Binghamton Geomorphology Symposium*. Allen and Unwin, pp. 1-18.
- Willetts, B.B., Rice, M.A. and Swaine, S.E. 1982. Shape effects in Aeolian Grain Transport. *Sedimentology*. 29: 409-417.
- Williams, G. 1964. Some Aspects of the Eolian Saltation Load. *Sedimentology*. 3(4): 257-287.
- Williams, G.E. 1970. Piedmont Sedimentation and Late Quaternary Chronology in Biskra Region of North Sahara. *Zeitschrift für Geomorphologie, Supplement*. 10: 40-63.
- Williams, G.E. 1973. Late Quaternary Piedmont Sedimentation, Soil Formation and Paleoclimates in Arid South Australia. *Zeitschrift für Geomorphologie*. 17: 102-125.
- Williams, G.J. 1982. A Preliminary Landsat Interpretation of the Relict Landforms of Western Zambia. *Paper Presented to the Southern African Conference of the Commonwealth Geographical Bureau*.
- Williams, M.A.J. 1975. Late Pleistocene tropical aridity synchronous in both hemispheres. *Nature*. 253: 617-618.
- Williams, M.A.J. 1968. A dune catena on the clay plains of the west central Gezira, Republic of Sudan. *Journal of Soil Science*. 19 (2): 367-378.
- Williams, M.A.J. 1985. Pleistocene Aridity in Tropical Africa, Australia and Asia. In Douglas, I. and Spence, T. (eds). *Environmental Change and Tropical Geomorphology*. London: Allen and Unwin. pp. 219-235.
- Williams, M.A.J. and Hall, D.N. 1965. Recent Expeditions to Libya from the Royal Military Academy, Sandhurst. *Geographical Journal*. 131: 482-501.
- Williams, M.A.J. and Faure, H. (eds). 1980. *The Sahara and the Nile*. Balkema.
- Williams, M.A.J., Adamson, D.A. and Abdulla, H.H. 1982. Landforms and Soils of the Gezera; a Quaternary Legacy of the Blue and White Nile Rivers. In Williams, M.A.J. and Adamson, D.A. (eds). *A Land Between Two Niles: Quaternary Geology and Biology of the Central Nile*. Rotterdam: A.A. Balkema. pp. 111-142.
- Williams, M.A.J., Adamson, D.A., Williams, F.M., Marten, W.H. and Parry, D.E. 1982. Jebel Marra Volcano: a Link Between the Nile Valley, the Sahara and Central Africa. In Williams, M.A.J. and Adamson, D.A. (eds). *A Land Between Two Niles: Quaternary Geology and Biology of the Central Nile*. Rotterdam: A.A. Balkema. pp. 305-338.
- Williams, O.B. 1979. Australia. In Goodall, W.G., Perry, R.A. and Howes, K.M.W. (eds). *Arid Land Ecosystems; Structure, Functioning and Management, Vol 1*. International Biological Programme, Cambridge University Press. pp. 145-212.
- Wilmer, H.C. 1894. The Dunes in South West Africa. *South African Philosophical Society, Transactions*. 5. Abstract in *Geographical Journal*. 4: 233 (1894).
- Wilshire, H.G. 1980. Surface Modifications in Semi-Arid Land under Severe Wind Conditions (abs). *Geological Society of America, Abstracts Program*. 12(3): 159-160.
- Wilson, C.C. 1897. Correspondence on Drifting Sands. *Geographical Journal*. 9: 570.
- Wilson, I.G. 1967. *The Nature and Development of Sand Seas*. University of Reading, Msc Thesis.
- Wilson, I.G. 1970. *The External Morphology of Wind-Laid Sand Bodies*. University of Reading, PhD Thesis.
- Wilson, I.G. 1971(a). Journey Across the Grand Erg Oriental. *Geographical Magazine*. 43: 264-270.

- Wilson, I.G. 1971(b). Desert Sandflow Basins and a Model for the Development of Ergs. *Geographical Journal*. 137: 180-197.
- Wilson, I.G. 1972(a). Universal Discontinuities in Bedforms Produced by Wind. *Journal of Sedimentary Petrology*. 42: 667-669.
- Wilson, I.G. 1972(b). Aeolian Bedforms; Their Development and Origins. *Sedimentology*. 19: 173-210.
- Wilson, I.G. 1972(c). Sand Waves. *New Scientist*. 24: 634-637.
- Wilson, I.G. 1973. Ergs. *Sedimentary Geology*. 10: 77-106.
- Wilson, S.E. 1980. Michigan's Sand Dunes. *United States Geological Survey Pamphlet* 7. 10 p.
- Wingate, O. 1934. In Search of Zerkura. *Geographical Journal*. 83: 281-308.
- Winklenden, A.M. 1971. Rollability, a Functional Shape Property of Sands. *Journal of Sedimentary Petrology*. 41: 703-714.
- Wirth, E. 1958. Morphologische und Bodenkundliche Beobachtungen in der Syrischirakischen Wüste. *Erdkunde*. 12: 26-42.
- Witek, S. 1969. Kilka Uwag o Uziarnieniu i Wysortowaniu Piasków Wydmowych w Kotlinie Sandomierskiej. (Remarks on the Grain Size and Sorting of Dune Sands in the Sandomierz Basin). *Przegląd Geograficzny*. 17(10): 515-517.
- Witek, S. 1970. Rola Procesów Eolicznych w Rozwoju Rzeźby Kotliny Sandomierskiej Między Wisłoką a Sanem. (Role of Eolian Processes in the Evolution of the Sandomierz Basin between Wisłok and San) (abs). *Polska Akademia Nauk Instytut Geografii i Dok. Geograficzne*. 6: 28-32.
- Wittschell, L. 1931. Morphological Effects of Sand and Dust Storms. *Geographical Journal*. 77: 588-589.
- Wojciechowski, A. 1979. Rekonstrukcja Kierunków Przyziemnych Strug Powietrza za Stokiem Odwietrznym Wydm na Podstawie Analizy Rozmieszczenia Zmarszczek. (Reconstruction of the Directions of Near Ground Air Streams Behind the Lee Slope of a Dune on the Basis of the Distribution of Eolian Ripple Marks). *Badenia Fizjograficzne nad Polską Zachodnią, Seria A, Geografia Fizyczna*. 32: 169-190.
- Wojtanowicz, J. 1968. Wydmę Międzyrzeczską Sanu i Legu. (Dunes of the Area Between the San and Leg Rivers). *Annales Universitatis Mariae - Curie Skłodowska, Sectio B*. 20(1965): 89-124.
- Wojtanowicz, J. 1970. Wydmę Niziny Sandomierskiej w Świetle Badań Granulometrycznych. (Dunes of the Sandomierz Plain in Light of Granulometric Examination). *Annales Universitatis Mariae Curie - Skłodowska*. 25(1): 1-49.
- Wojtanowicz, J. 1972. Rzeźba Eoliczna na Północnym Przedpolu Płaskowyżu Kolbuszowskiego. (Aeolian Relief in the Northern Foreland of the Kolbuszow Plateau). *Annales Universitatis Mariae - Curie Skłodowska, Sectio B*. 27: 1-20.
- Wolfe, R.W. 1979. Orientation of Eolian Features in the North Polar Region of Mars: A Preliminary Assessment. *Proceedings of the Lunar Planetary Science Conference*. 10: 1364-1366.
- Woodhouse, W.W. Jr. 1978. *Dune Building and Stabilisation with Vegetation*. U.S. Army Corps of Engineers, Special Report, No. 3. 112 p.
- Wopfner, A.L. and Twidale, C.R. 1967. Geomorphological History of the Lake Eyre Basin. In Jennings, J.N. and Mabbutt, J.A. (eds). *Landform Studies from Australia and New Guinea*. Canberra: Australia National University Press. pp. 118-143.
- Worrall, G.A. 1974. Observations on Some Wind-Formed Features in the Southern Sahara. *Zeitschrift für Geomorphologie*. 18(3): 291-302.
- Wright, E.P. 1978. Geological Studies in the Northern Kalahari. *Geographical Journal*. 144: 235-249.
- Wright, J.W. 1945. War-Time Exploration with the Sudan Defence Force in the Libyan Desert. *Geographical Journal*. 105(3-4): 100-111.
- Wyrwoll, K.H. and Milton, D. 1976. Widespread Late Quaternary Aridity in Western Australia. *Nature*. 264(5585): 429-430.
- Wyrwoll, K.H. and Smyth, G.K. 1985. On using the log-hyperbolic distribution to describe the textural characteristics of eolian sediments. *Journal of Sedimentary Petrology*. 55: 471-478.
- Xing-Zhen, H. and Zhong-Hai, P. 1981. Applying Granularity Data to Research for Eolian Sand Characteristics in the Southwestern Part of Maowusu (in Chinese). *Acta Geographica Sinica*. 36(1): 70-78.
- Xu, S. and Xu, D. 1983. A Primary Observation of Aeolian Sand Deposits on Eastern Shore of Qinhai Lake. *Journal of Desert Research*. 3(3): 11-17.

- Xu, S., Xu, D. and Shi, S. 1982. Aeolian Sand Deposits in the Bonghe Basin, Qinghai Province. *Journal of Desert Research*. 2(3): 1-8.
- Yaalon, D.H. 1978. "Geoderma" - Continental Sedimentation: Calcrete, Desert Loess and Paleosols, Sand Dunes and Eolianites. *Tenth International Congress on Sedimentology, Jerusalem*. pp. 195-238.
- Yaalon, D.H. (ed). 1982. *Aridic Soils and Geomorphic Processes*. Proceedings, Conference of the International Society for Soil Science. Jerusalem, Israel. Catena, Supplement 1.
- Yaalon, D.H. and Laronne, J. 1971. Internal Structures in Eolianites and Paleowinds, Mediterranean Coast, Israel. *Journal of Sedimentary Petrology*. 41(4): 1059-1064.
- Yaalon, D.H. and Ward, J.D. 1982. Observations on Calcrete and Recent Calcic Horizons in Relation to Landforms in the Central Namib Desert. *Palaeoecology of Africa*. 15: 183-186.
- Yair, A. 1978. Desert Geomorphic Processes. In Goldberg, M. et al. *Tenth International Congress on Sedimentology; Sedimentology in Israel, Cyprus and Turkey, Guidebook, Part II*. pp. 95-159.
- Yakubov, T.F. 1968. Peski Oazisa Kharga v Liviyskoy Pustyne Yegipta i Svyazannyye s Nimi Problemy. (The Sands of the Kharga Oasis in the Libyan Desert of Egypt and Related Problems). *Akademiya Nauk SSSR, Izvestiya Seriya Geograficheskaya*. 3: 31-39.
- Yang, Y., Li, B., Zhang, Yi. and Zhang, W. 1982. The Formation and Evolution of Landforms in the Xizang Plateau (in Chinese). *Acta Geographica Sinica*. 37(1): 76-87.
- Yarham, E.R. 1958. Singing sands: a strange concert heard in the desert. *UNESCO Courier*. 6: 26-27.
- Yate, A.C. 1894. Sand Dunes. *Geographical Journal*. 9: 672-673.
- Yepifanov, M.I. 1973. Osobennosti Aridnogo Rel'yefoobrazovaniya i Nekoteryye Novyye Dannyye pa Neoteketnike Zapada Sredney Azii. (Characteristics of the Formation of Relief in Arid Climate and Some New Data on Neotectonics of Western Central Asia) (abs). *Moskovskoye Obshchestvo Ispytateley Prirody Byulleten' Otdel Geologicheskoy*. 48(2): 155.
- Yu, S.Z., Li, B., Cai, W.Q. and Tan, J.N. 1962. A survey of the Gobi of western Inner Mongolia and Badain Jaran Desert. In *Research on sand control, Communist China*. Sand Control Group of the Academia Sinica. 244-276. Published by National Technical Information Service. JPRS 19993. Washington, D.C.
- Yuquan, L. and Zheng, W. 1980. Experimentation on the Dynamic Photography of the Movement of Sand-Driving Wind (in Chinese). *Acta Geographica Sinica*. 35(2): 174-181.
- Zanke, U. 1981. Sand Transport Under The Action of Wind. *Proceedings of The Coastal Engineering Conference*. 17: 1576-1583.
- Zeremski, M. 1972. Processus Eoliens Contemporains dans la Region du Defile des Portes de Fer, Djerdap, Comme Exemple de l'Action de Meme Sens des Agent du Climat Periglaciaire. *Dynamics and Prognostic of Surface Development by European Regional Types*. Acta Geographica Debrecina. 17: 117-122.
- Zheng, Wu. 1981. Approach to the Genesis of the Taklimakan Desert (in Chinese). *Acta Geographica Sinica*. 36(3): 280-291.
- Zhumashov, A. and Arnageldiyev, A. 1978. On Sand Movement in the Central Karakum (in Russian). *Problemy Osvoeniya Pustyn'*, Akademiya Nauk Turkmenskoy SSR. 6: 70-72.
- Zhu Zenda. 1979. Thirty years in research works on Chinese sandy deserts. *Acta Geographica Sinica*. 34 (4): 305-314.
- Zhu Zhenda. 1984. Aeolian Landforms in the Taklimakan Desert. In El-Baz, F. (ed). *Deserts and Arid Lands*. The Hague: Martinus Nijhoff Publishers. pp. 133-143.
- Zhu Zenda et al. 1980. Overview of the deserts in China. *Lanhou Institute of Desert Research*. 107 p.
- Zielinska, M. 1980. Zwiasek piaskow eoicznych ze zwietzelina piaskowcow triasowych w Tucznawie pod Zabkowicami Bedzinskimi. (Relationship of aeolian sands to weathered Triassic sandstone in Tucshawa near Zabkawica Bedzinskie). *Geographica Studia et Dissertationes*. 3: 69-85.
- Zingg, A.W. 1952. A study of the characteristics of sand movement by wind. M.S. thesis, Department of Agricultural Engineering, Kansas State College, Manhattan, Kansas.

- Zingg, A.W. 1953(a). Some Characteristics of Eolian Sand Movement by Saltation Process. In *Actions Eoliennes*. Centre National de Recherches Scientifiques, Paris, Colloques Internationaux. 35: 197-208.
- Zingg, A.W. 1953(b). Quelques caracteristiques du mouvement eolien du sable par le processus de saltation. *Colloques Internationaux du C.N.R.S.* 35: 197-208.
- Znaminskaya, N.S. 1963. Experimental Study of the Dune Movement of Sediment. *Soviet Hydrology, Select Papers*. 3: 253-275.

Report Documentation Page

1. Report No. NASA CR-4149		2. Government Accession No.		3. Recipient's Catalog No.	
4. Title and Subtitle A Bibliography of Dunes: Earth, Mars, and Venus				5. Report Date June 1988	
				6. Performing Organization Code	
7. Author(s) N. Lancaster				8. Performing Organization Report No.	
				10. Work Unit No.	
9. Performing Organization Name and Address Department of Geology Arizona State University Tempe, Arizona				11. Contract or Grant No. NCC 2-346	
				13. Type of Report and Period Covered Contractor Report	
12. Sponsoring Agency Name and Address Office of Space Science and Applications National Aeronautics and Space Administration Washington, DC 20546				14. Sponsoring Agency Code	
15. Supplementary Notes					
16. Abstract Dunes are important depositional landforms and sedimentary environments on Earth and Mars, and may be important on Venus. The similarity of dune forms on Earth and Mars, together with the dynamic similarity of aeolian processes on the terrestrial planets indicates that it is appropriate to interpret dune forms and processes on Mars and Venus by using analog studies. However, the literature on dune studies is large and is scattered in a wide variety of sources. The aim of this bibliography is to assist investigators by providing a literature resource on techniques which have proved successful in elucidating dune characteristics and processes on Earth, Mars, and Venus. This bibliography documents the many investigations of dunes undertaken within the last century. It concentrates on studies of inland dunes in both hot and cold desert regions on Earth and includes investigations of coastal dunes only if they discuss matters of general significance for dune sediments, processes, or morphology.					
17. Key Words (Suggested by Author(s)) dunes Earth Mars Venus bibliography			18. Distribution Statement Unclassified - Unlimited Subject Category 91		
19. Security Classif. (of this report) Unclassified		20. Security Classif. (of this page) Unclassified		21. No. of pages 120	
				22. Price A06	

National Aeronautics and
Space Administration
Code NTT-4

Washington, D.C.
20546-0001

Official Business
Penalty for Private Use, \$300

SPECIAL FOURTH-CLASS RATE
POSTAGE & FEES PAID
NASA
Permit No. G-27

NASA

POSTMASTER: If Undeliverable (Section 158
Postal Manual) Do Not Return
